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Machine Switching Equipment Notes

Volume II

ILLUSTRATIONS AND DRAWINGS

ENGINEERING DEPARTMENT

Western Electric Company.
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Machine Switching Equipment Notes

Volume II

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*The text and descriptive matter
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and drawings in this volume
are associated will be found in
Volume I of Machine Switching
Equipment Notes.*

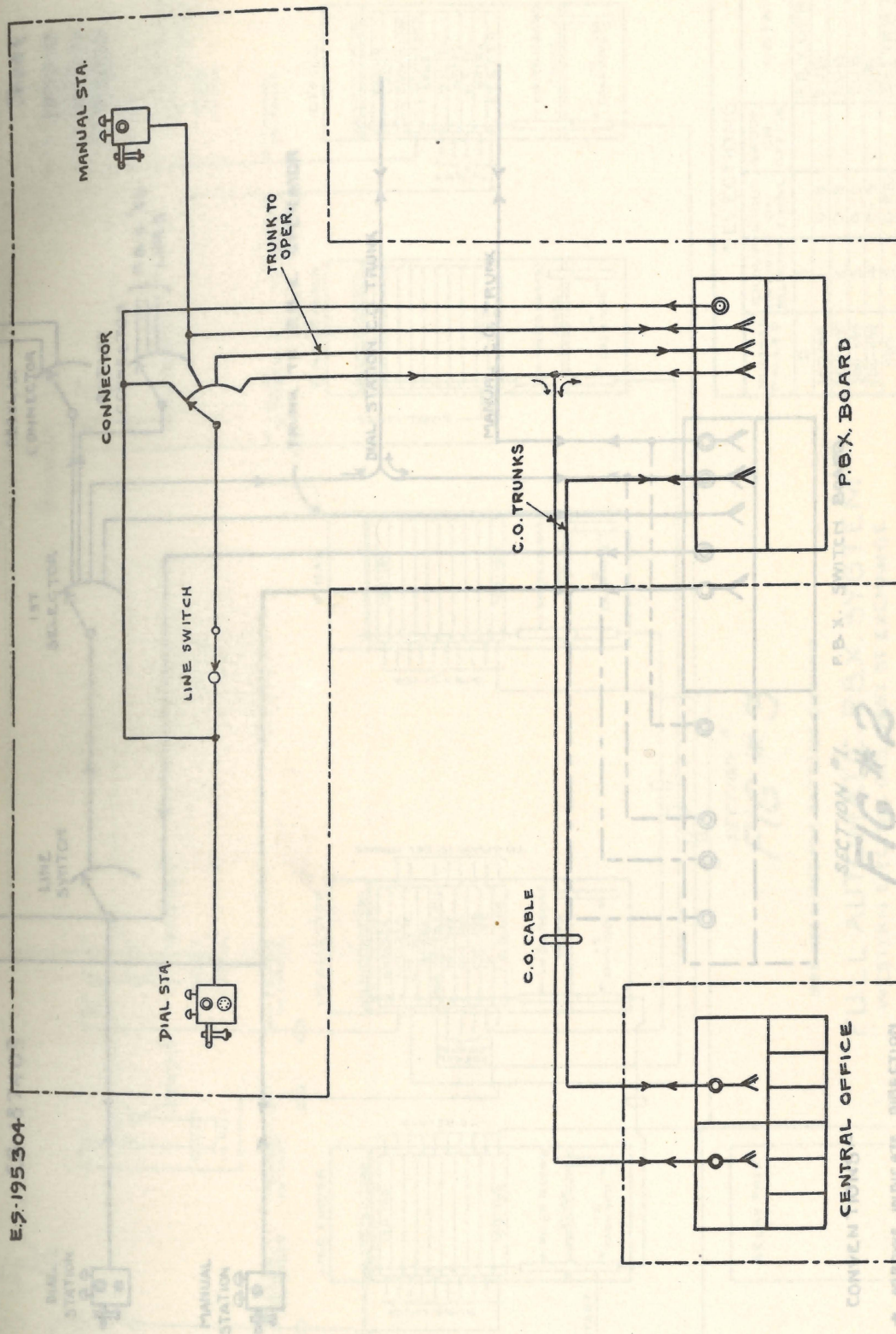
M580096

The left and right sides of the
table which are marked with
lines and letters in the columns
and rows will be found in
Various Mechanical Systems
Equipment Notes

Section I

Various Mechanical Systems

E.S. 195304

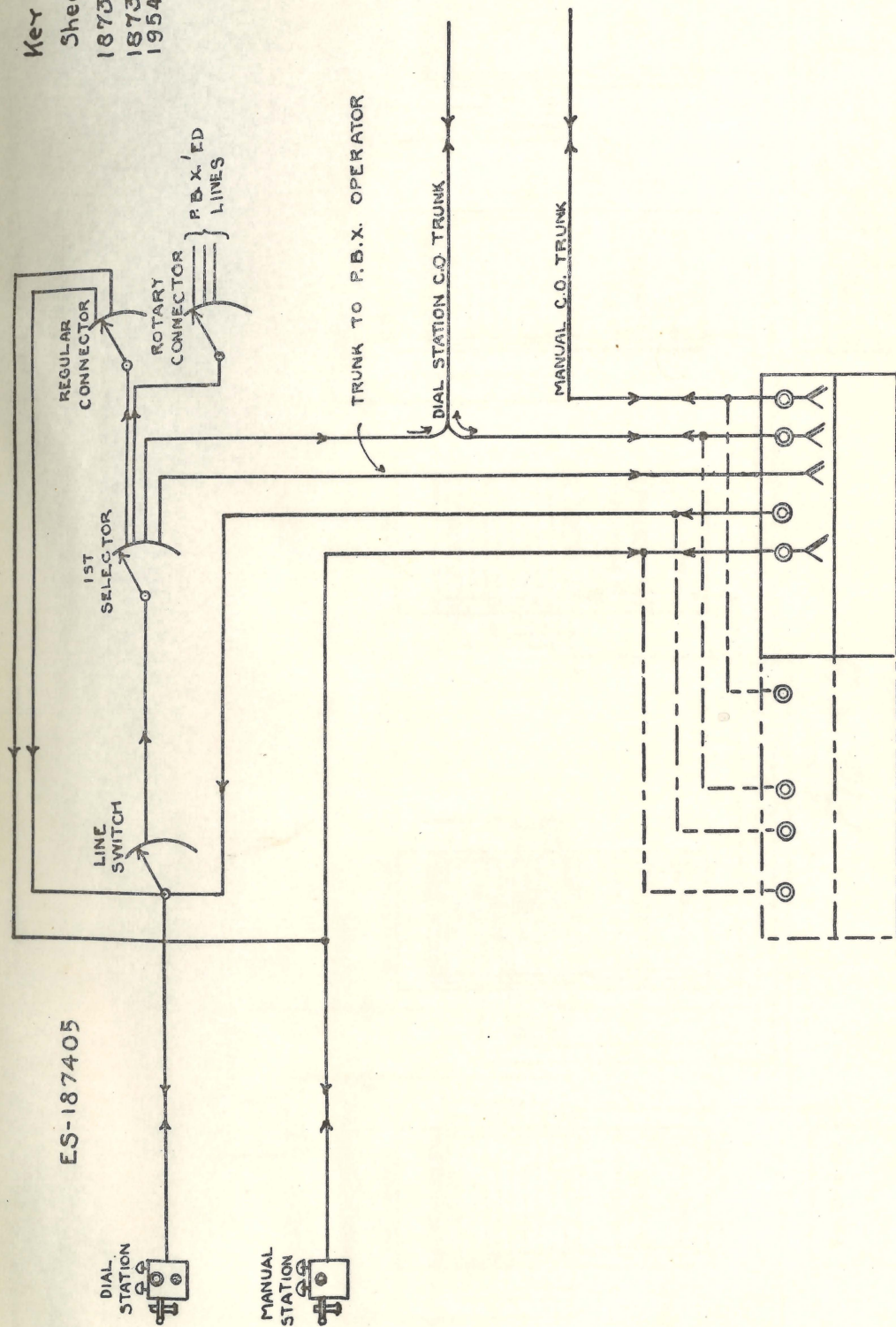


SECTION #1
FIG #1

SEMI-MECHANICAL P.B.X.
CIRCUIT MAP
DIGIT SYSTEM
USING KEITH LINE SWITCH
AND A.E. CO'S P.A.X.

ISSUED BY: *W. H. 19* 9/10/17. *M.B.*
Dec. 28, 1917. Williamson.

Key Sheet
187373
187374
195480



SECTION #1.
FIG #2

CONVENTIONS:-

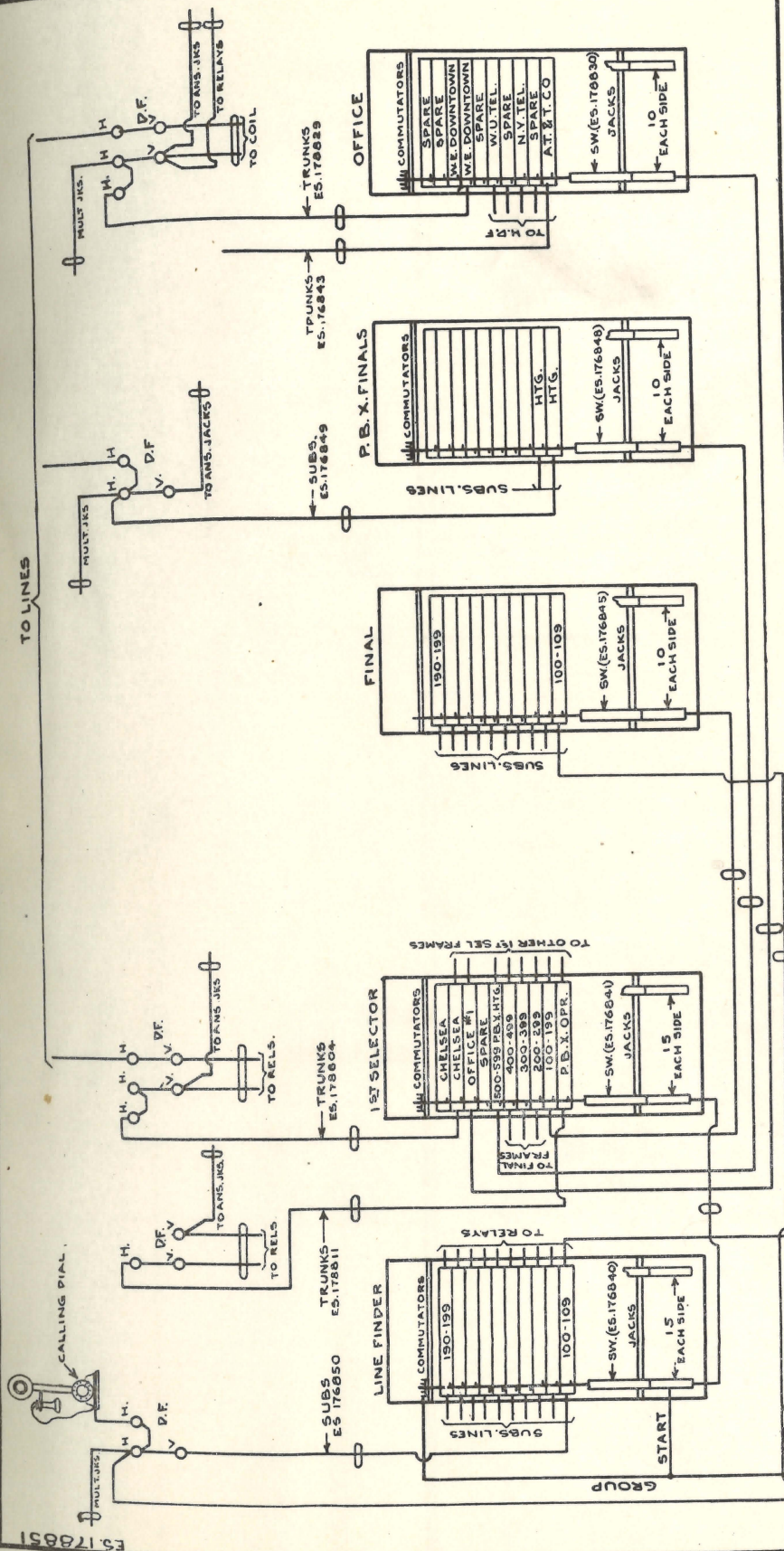
- 1 → ARROWS INDICATE DIRECTION OF TRAFFIC.
2. → INDICATES ANSWER JACK AND LAMP.
3. ○ CIRCLES INDICATE MULTIPLE JACK.
4. EQUIPMENT AND WIRING SHOWN DOTTED FOR MULTIPLE BOARD

SEMI-MECHANICAL P.B.X. 3 DIGIT SYSTEM
CIRCUIT MAP

ISSUED BY:- H.L.B. 1-25-18

Jan. 25, 1918. J.B. Williams, Jr.

ES-187405



SECTION #1
FIG #3

SEE KEY SHEET FOR BATTERY GROUND

FULL AUTOMATIC P.B.X. SYSTEM

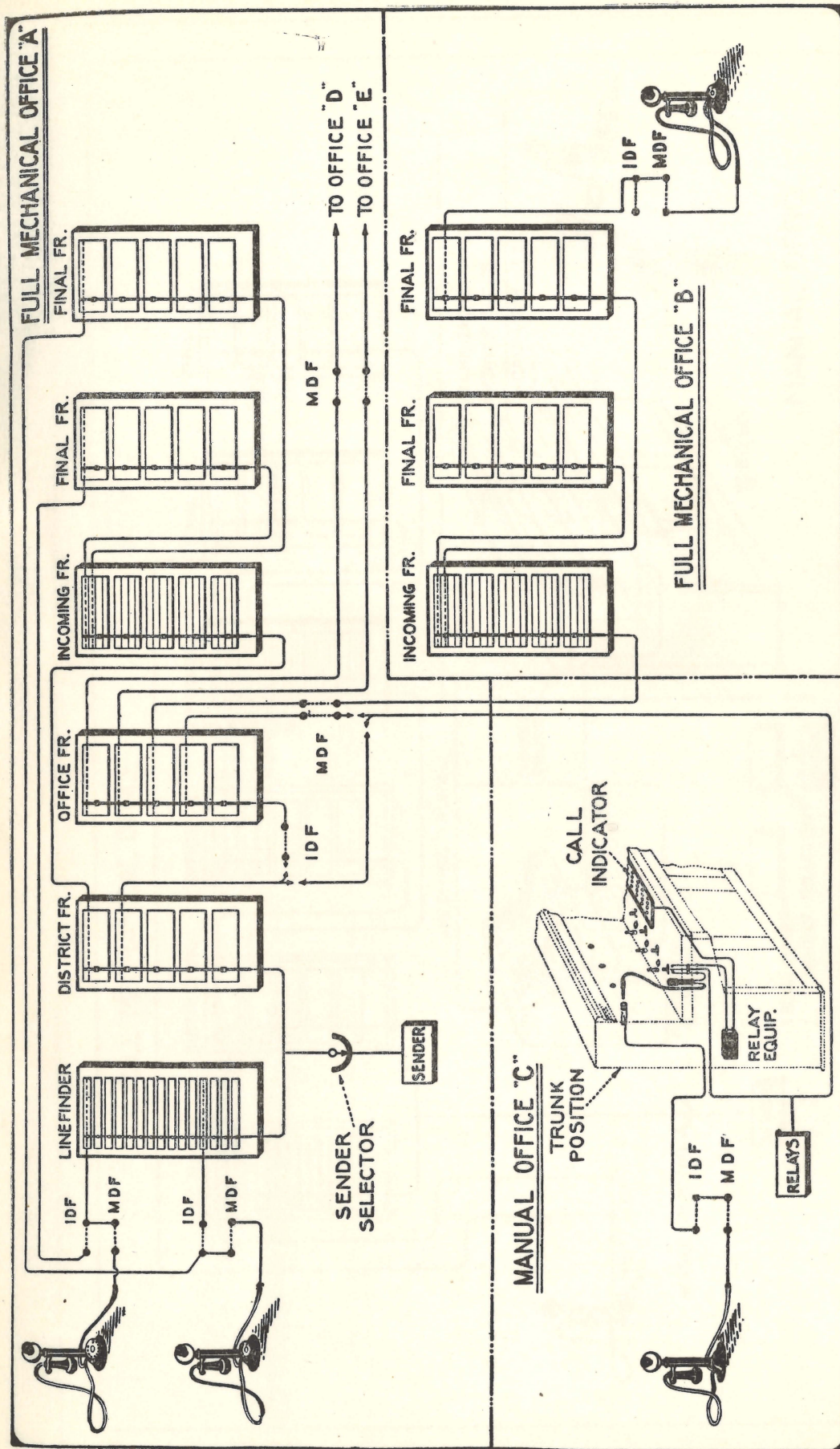
WESTERN ELECTRIC CO'S WEST ST. EXCHANGE
SCHEMATIC SHOWING GENERAL
ARRANGEMENT OF FRAME EQUIPMENT
AND ROUTING OF CALLS

CHECKED BY: *ELSA*, *R.B.B. 9/4/16*
ISSUE: 2 3/17/16 *M.428*

* 1ST SEL SW. HUNTS IN 9 IF ALL TRUNKS IN 8 ARE BUSY
* OFFICE SEL SW " 7 " " 6 " " 1 "

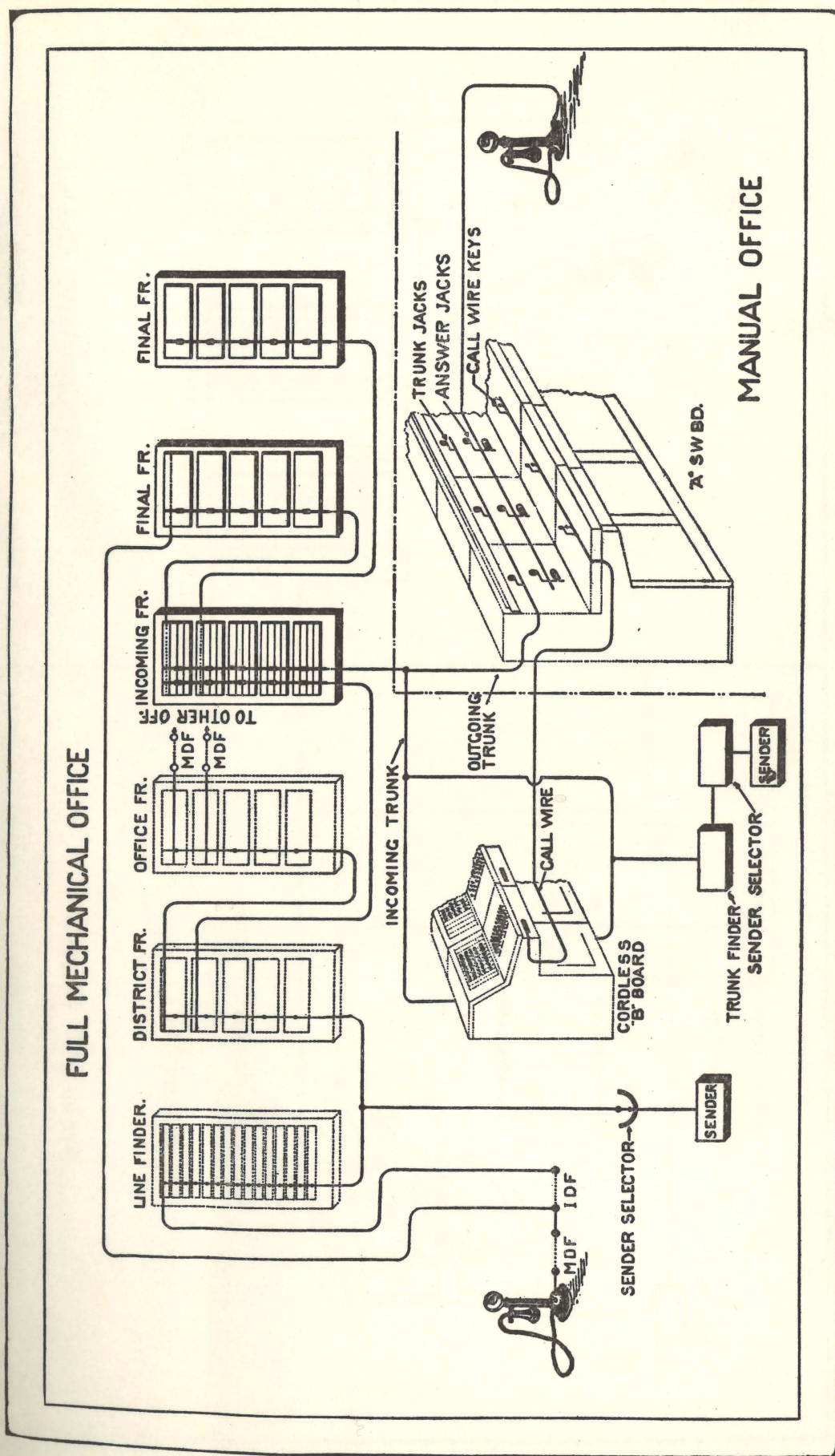
SELECTIONS

NUMBER DIALLED	GROUP ON FIRST SELECTION	GROUP ON FINAL	GROUP ON OFFICE	OBTAINS
0	0	0-9	0-9	P.B.X. OPR.
100-199	1	0-9	0-9	SUB.
200-299	2	0-9	0-9	SUB.
300-399	3	0-9	0-9	SUB.
400-499	4	0-9	0-9	SUB.
500	5	0-PBX	0-PBX	IDLE TRK. OF GRP.
510	5	1-PBX	1-PBX	IDLE TRK. OF GRP.
70	7	7	7	AT&T. P.B.X. OPR.
72	7	7	7	NY. T. P.B.X. OPR.
74	7	7	7	W.U.T. P.B.X. OPR.
76	7	7	7	W.E. CO. BLDG. PBX.
8	80R9*			CHELSEA

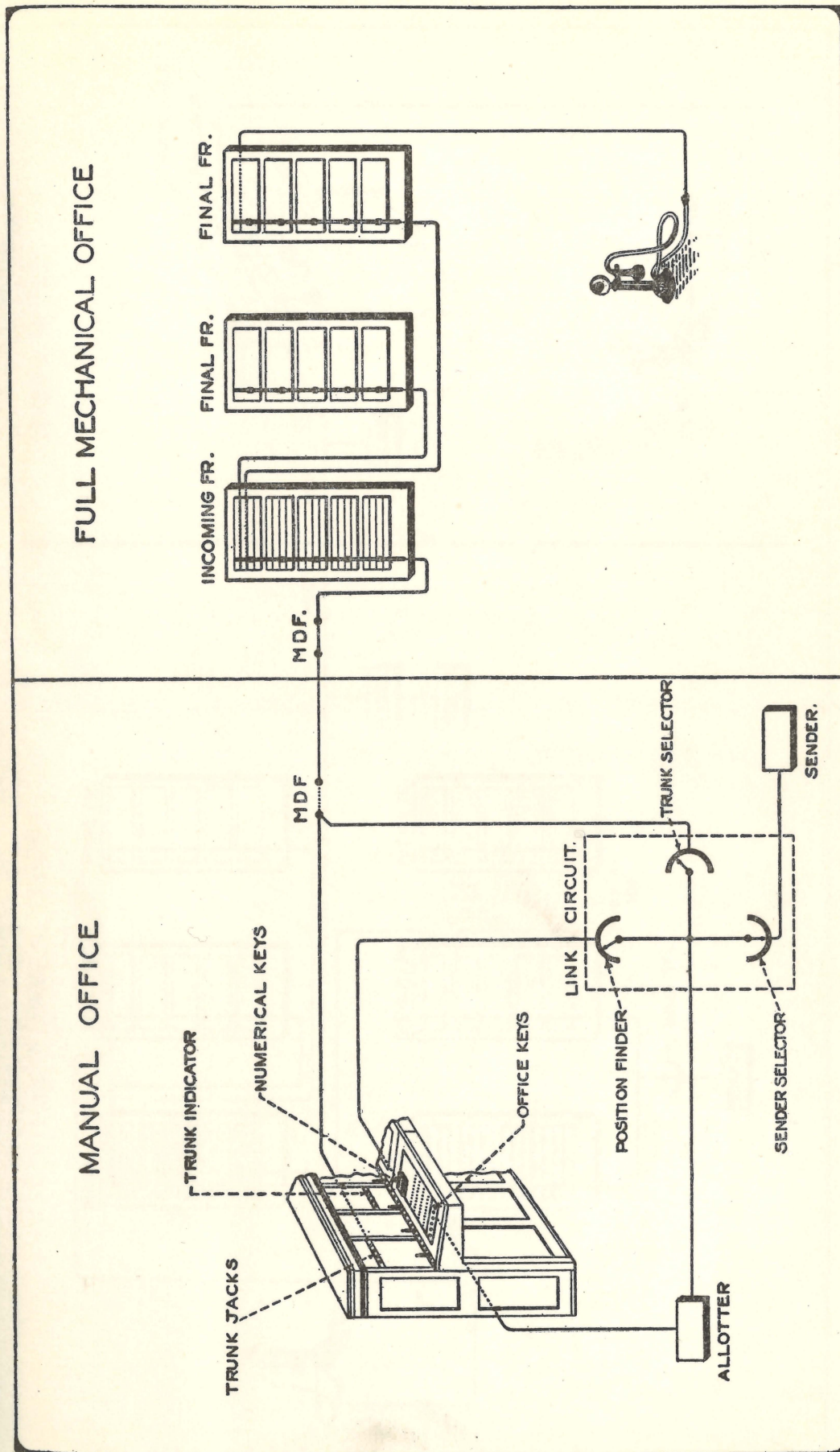


Illustrating the progress of a call through a full-mechanical office from one mechanical subscriber to another in the same office, also a call from a full-mechanical subscriber in one office to a manual subscriber in another office.

SEC. 1. Fig. 5.

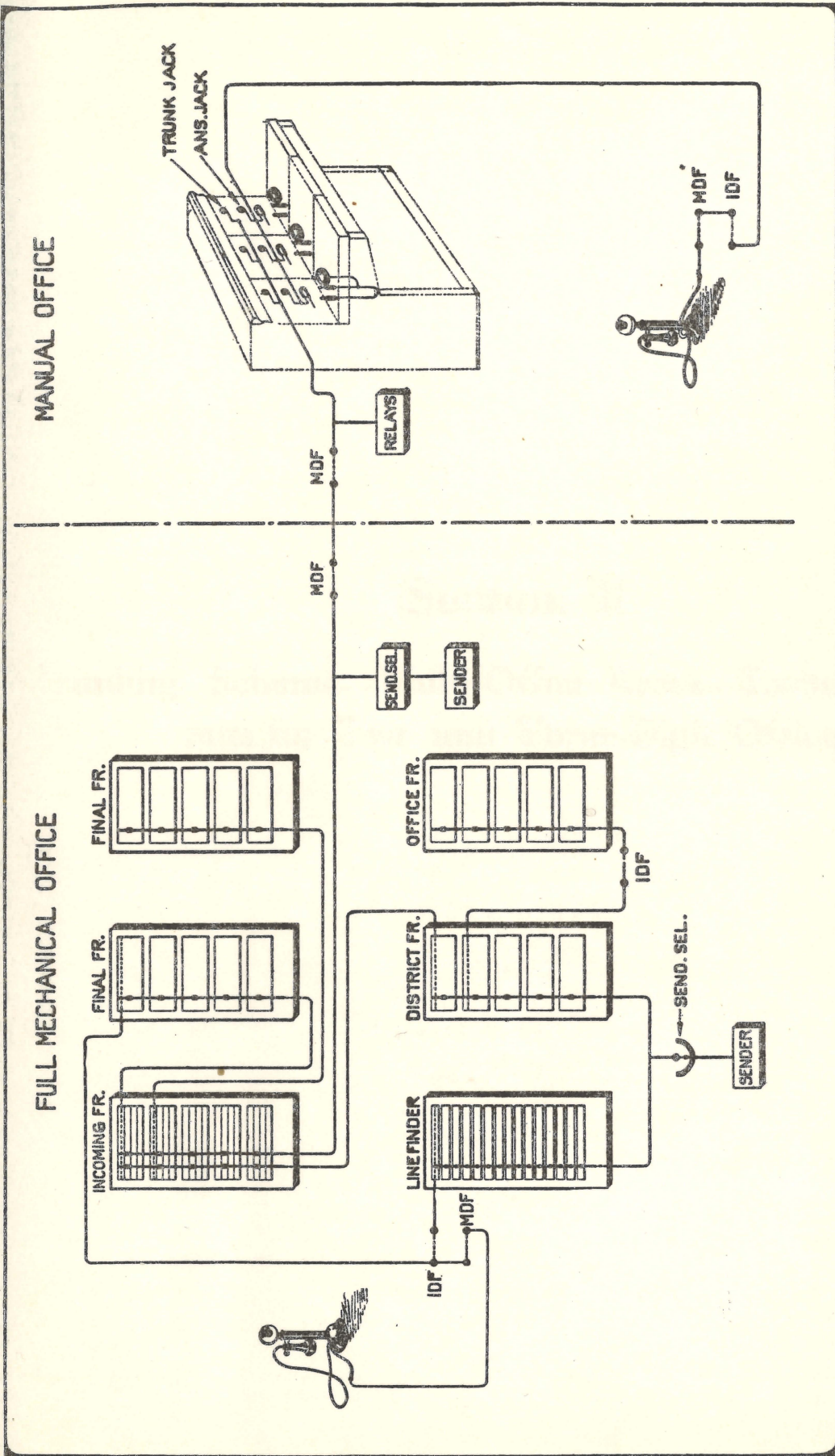


SEC. 1. Fig. 6.



Illustrating the progress of a call from a manual subscriber in one office to a full-mechanical subscriber in another office.
Manual office equipped with numerical keys and indicator.

SEC. 1. Fig. 7.

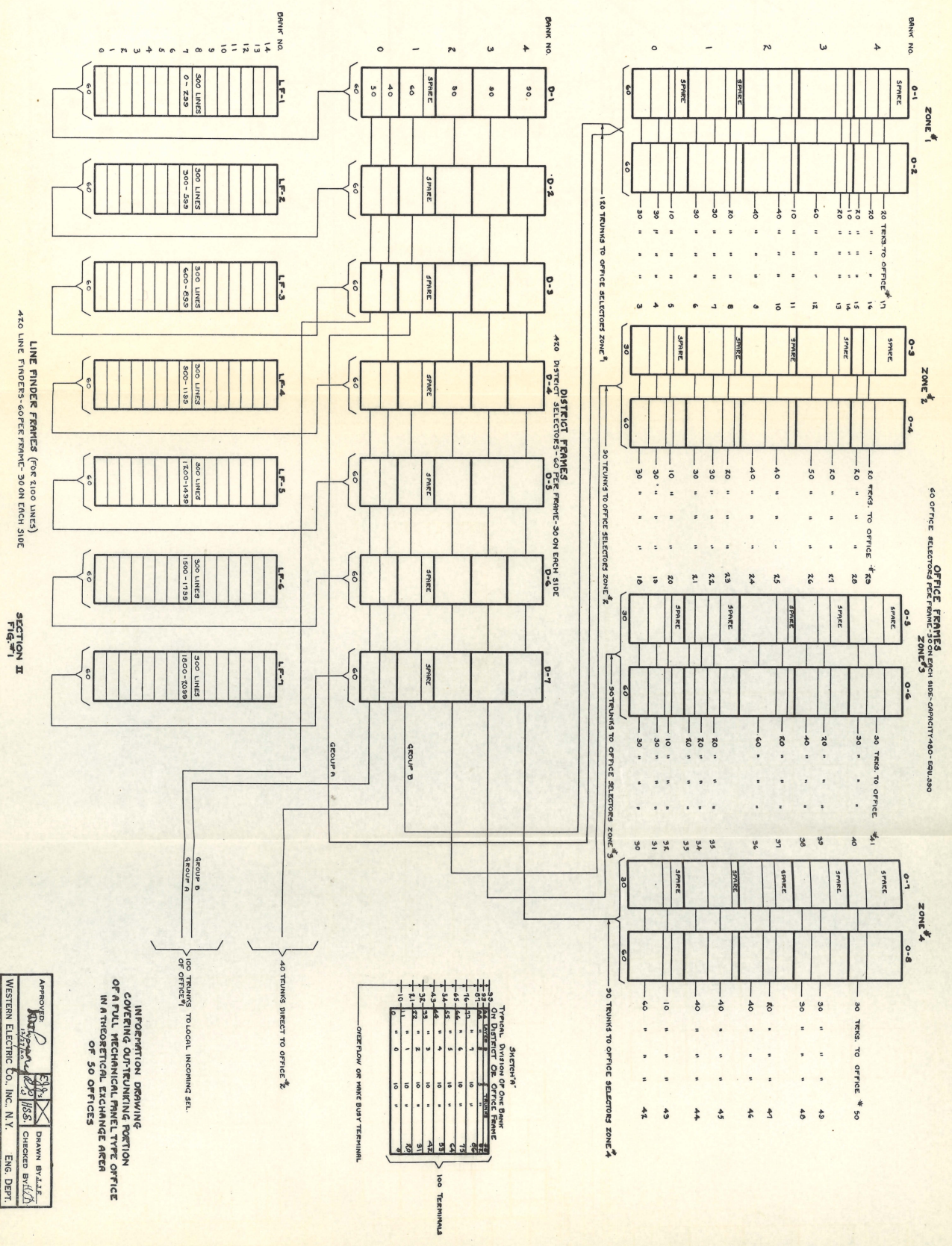


Illustrating the progress of a call from a manual subscriber in one office to a full-mechanical subscriber in another office.
Manual switchboard equipped with dials.

SEC. 1 Fig. 3.

Section II

**Trunking Scheme—Multi-Office Areas—Exchange Lay-
outs for Two and Three-Digit Offices**

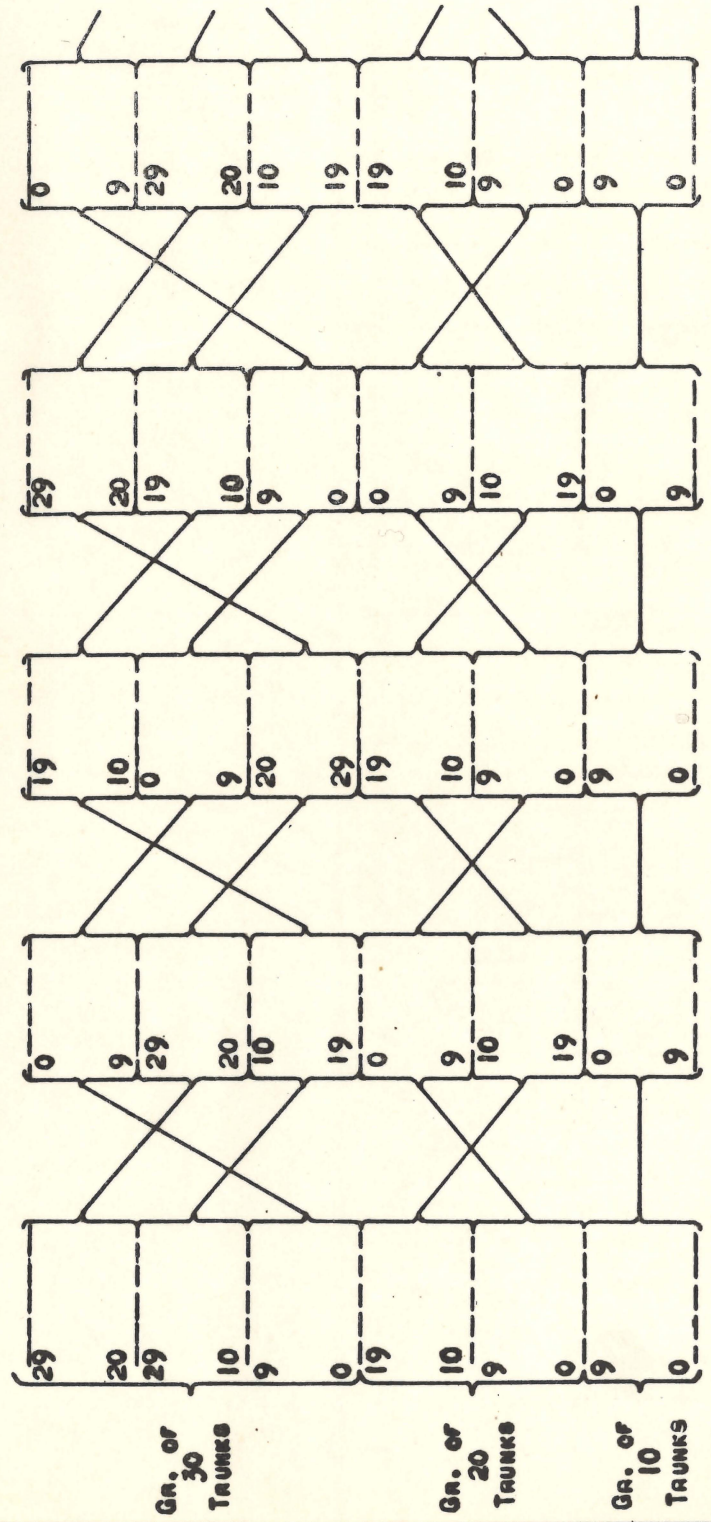


APPROVED: *[Signature]* DRAWN BY: *[Signature]*
 WESTERN ELECTRIC CO., INC. N.Y. CHECKED BY: *[Signature]*
 ENG. DEPT.

INFORMATION DRAWING
 COVERING OUT-RUNNING PORTION
 OF A FULL MECHANICAL PANEL TYPE OFFICE
 IN A THEORETICAL EXCHANGE AREA
 OF 50 OFFICES

METHOD OF SLIPPING O.G.T. MULTIPLE ON DISTRICT
AND OFFICE SELECTOR FRAMES

ENGINEER
DRAFTSMAN
CHECKED BY *WFR*
Log No. P-663588



SEL. FR. 5

SEL. FR. 4

SEL. FR. 3

SEL. FR. 2

SEL. FR. 1

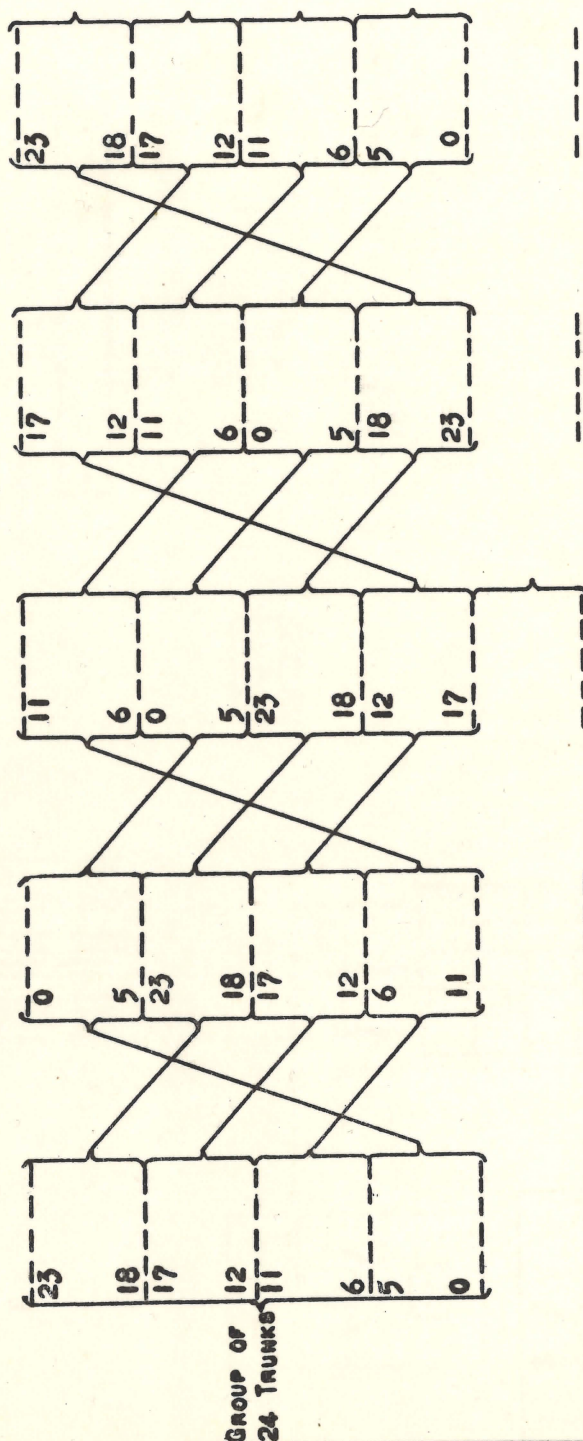
SECTION II
FIG. #2

MULTIPLE ARRANGEMENT OF INCOMING SELECTOR FRAMES

ENGINEER
DRAFTSMAN
CHECKED BY *XLS*

LOG. NO. P-64, 9-13-18

ISSUE 1.



SEL. FR. 1

SEL. FR. 2

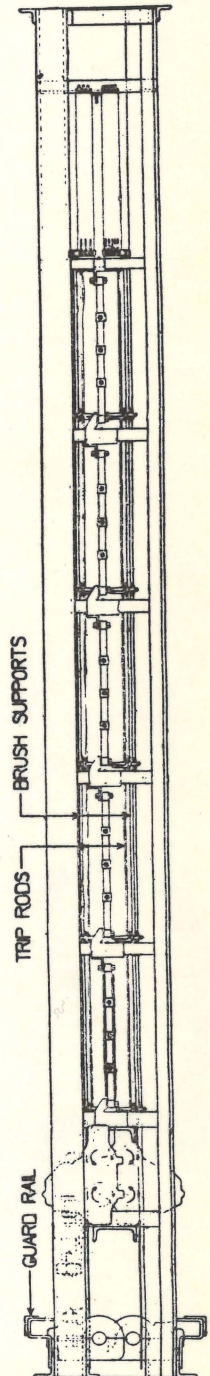
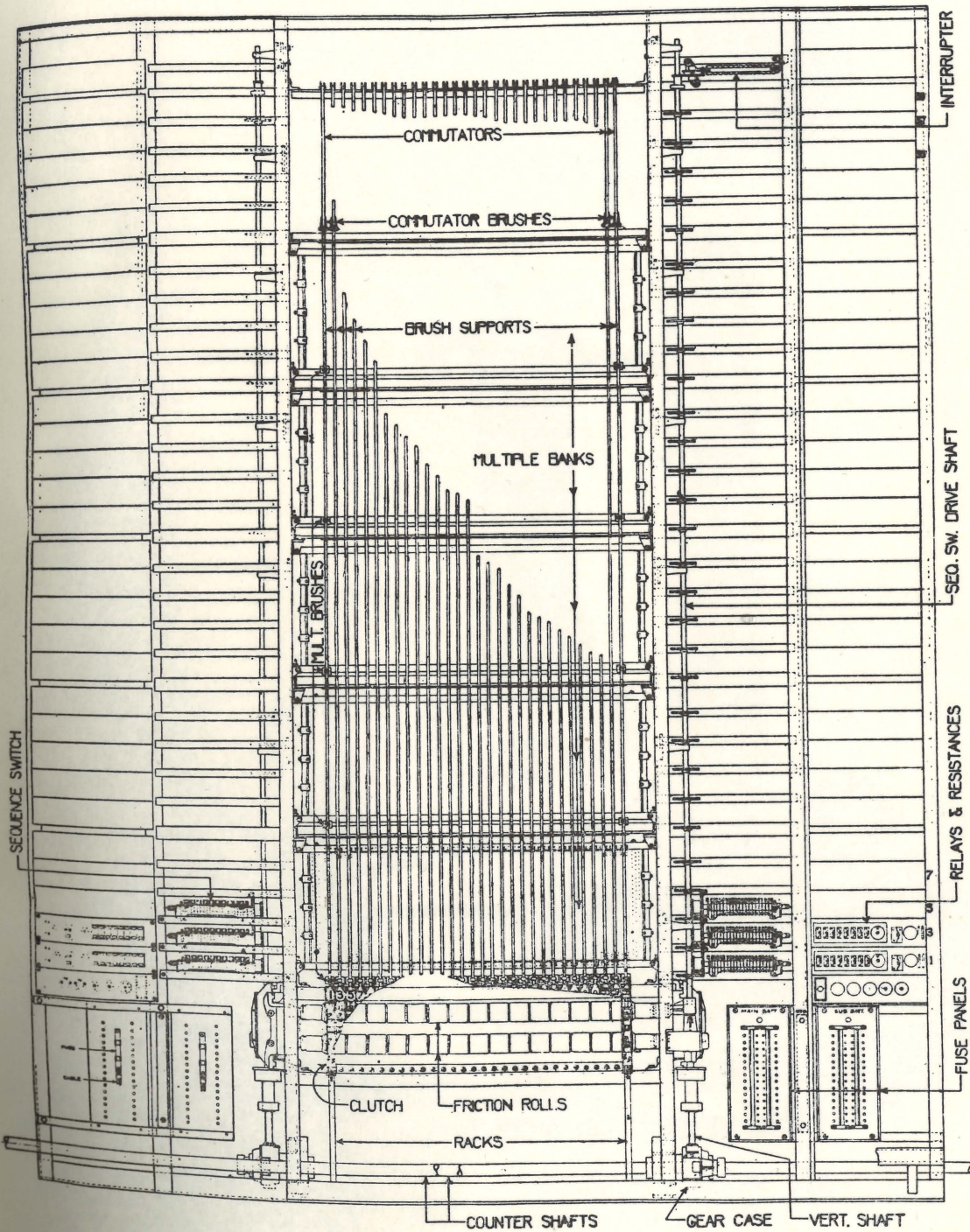
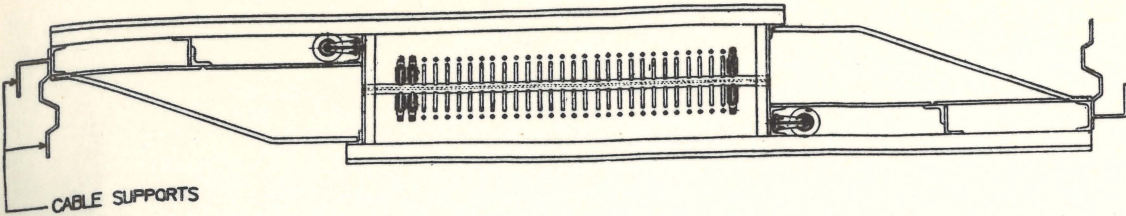
SEL. FR. 3

SEL. FR. 4

SEL. FR. 5

SECTION II
FIG. #4





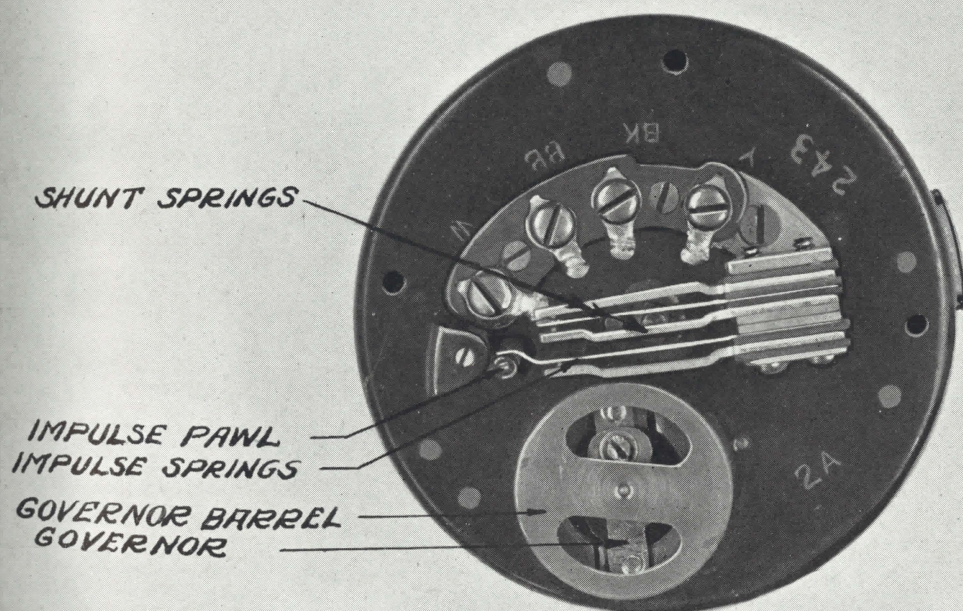
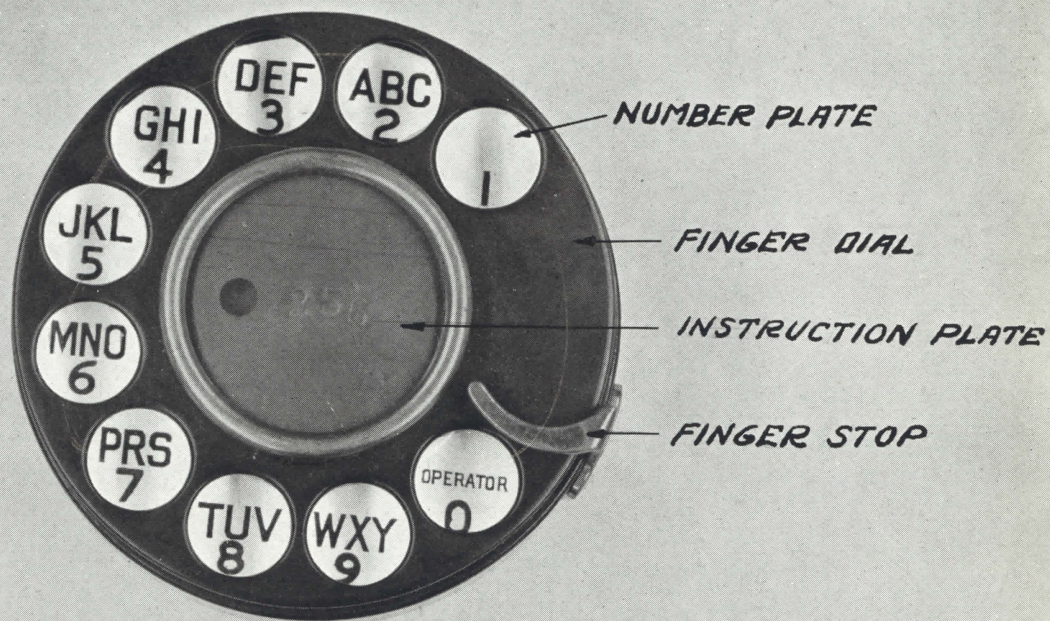
7636

TYPICAL SELECTOR FRAME

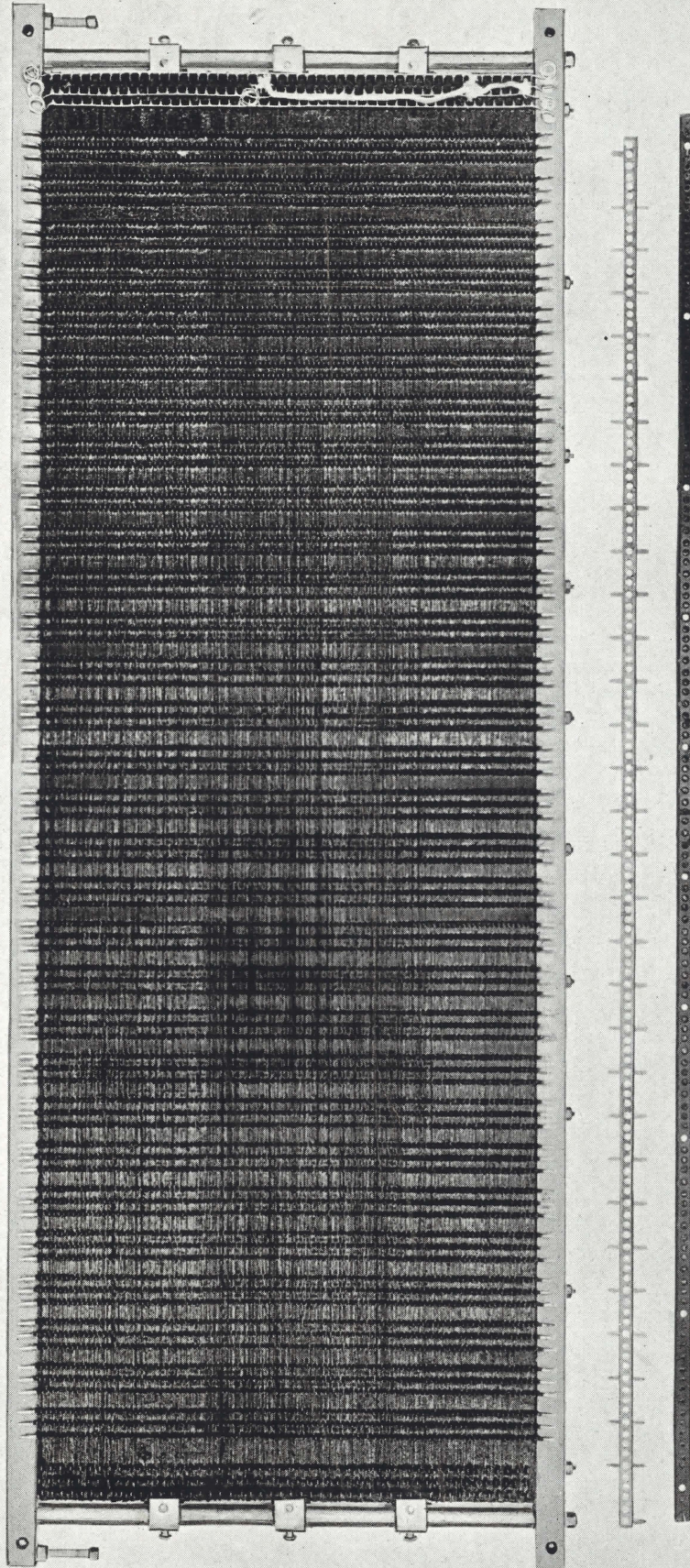
SECTION III
FIG. 1.



SECTION III
FIG 2

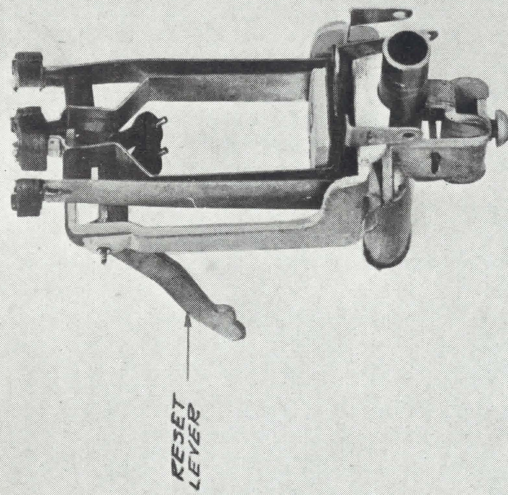


DIAL
SECTION III
FIG 3

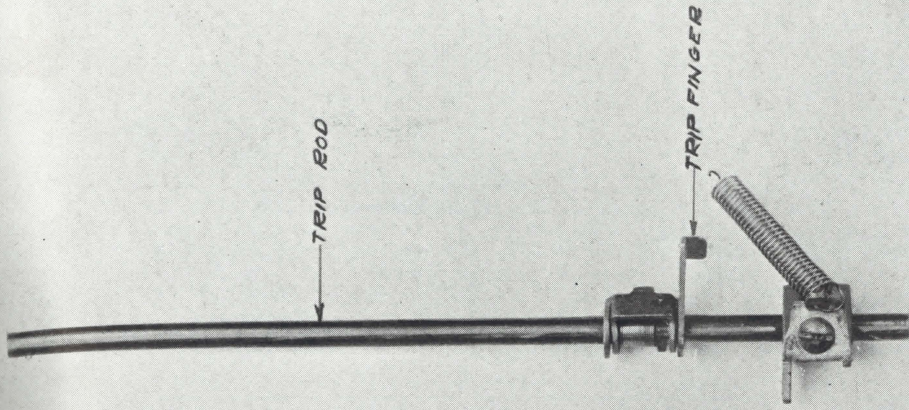
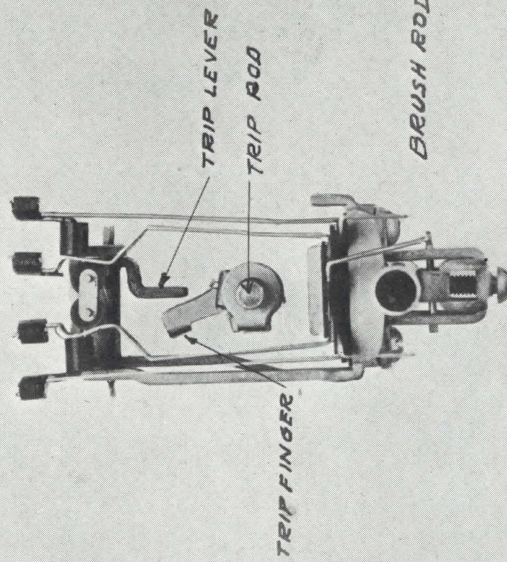


MULTIPLE BANK
SECTION III
FIG. 4.

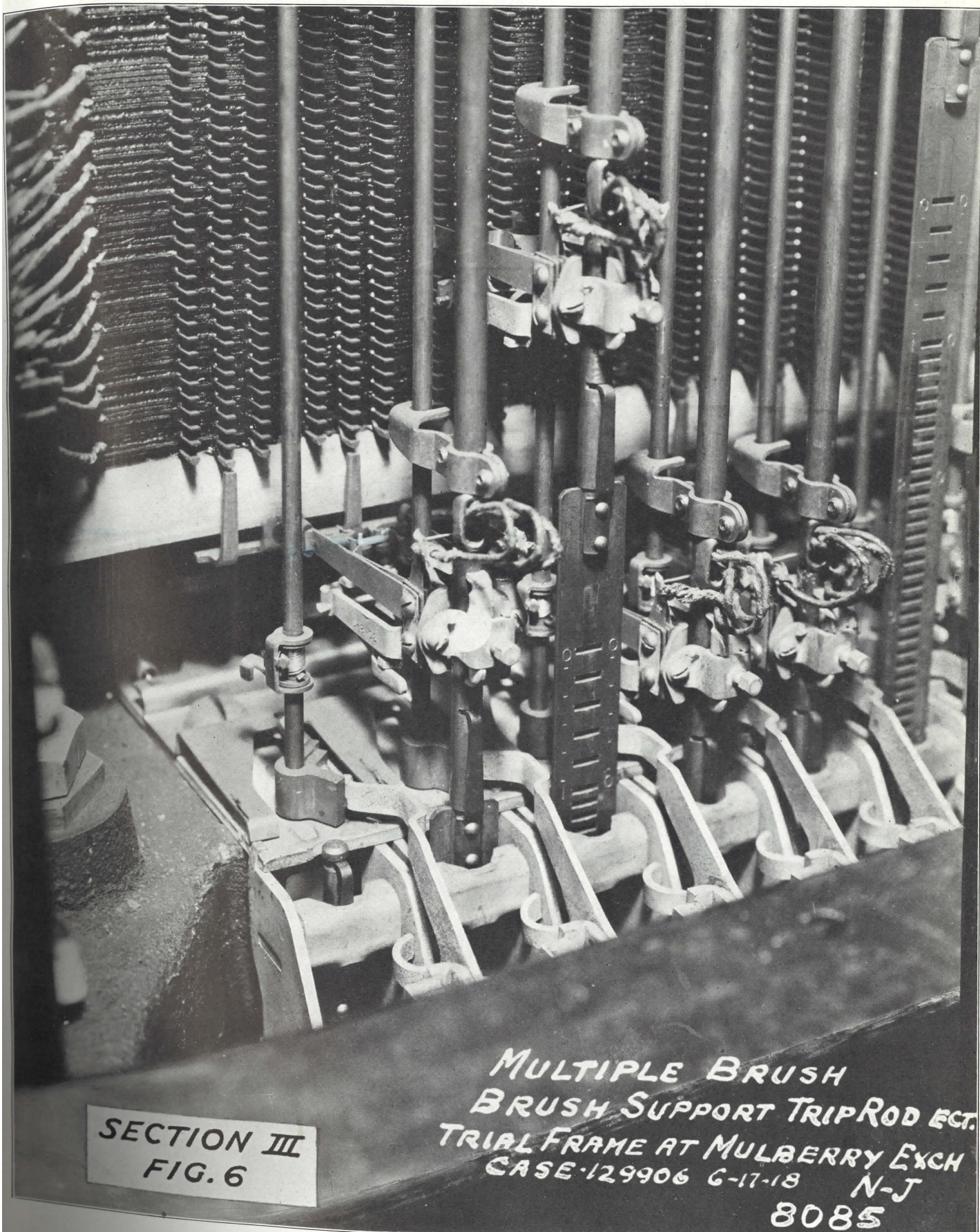
TRIPPED POSITION



NORMAL POSITION

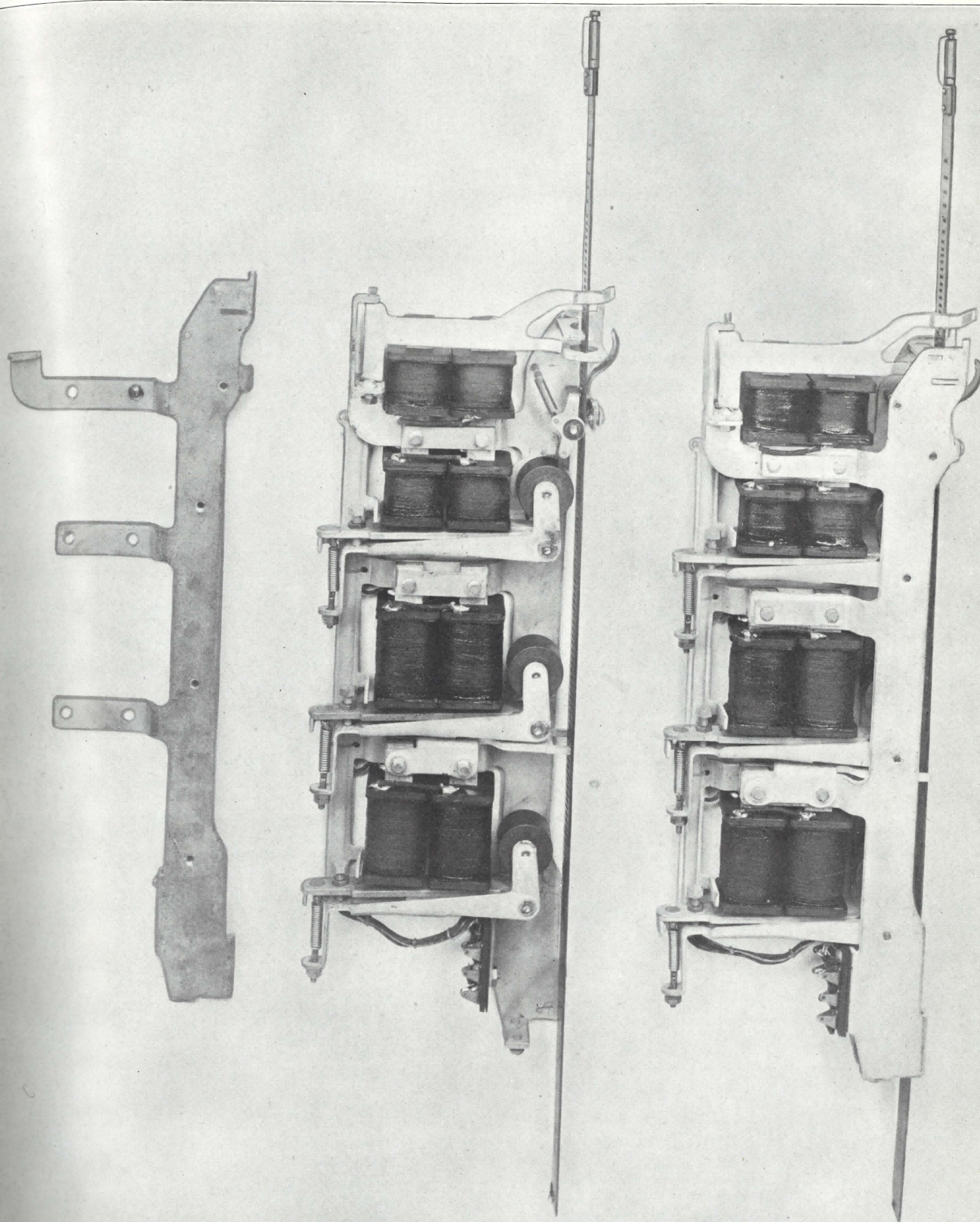


MULTIPLE BRUSH
SECTION III
FIG 5

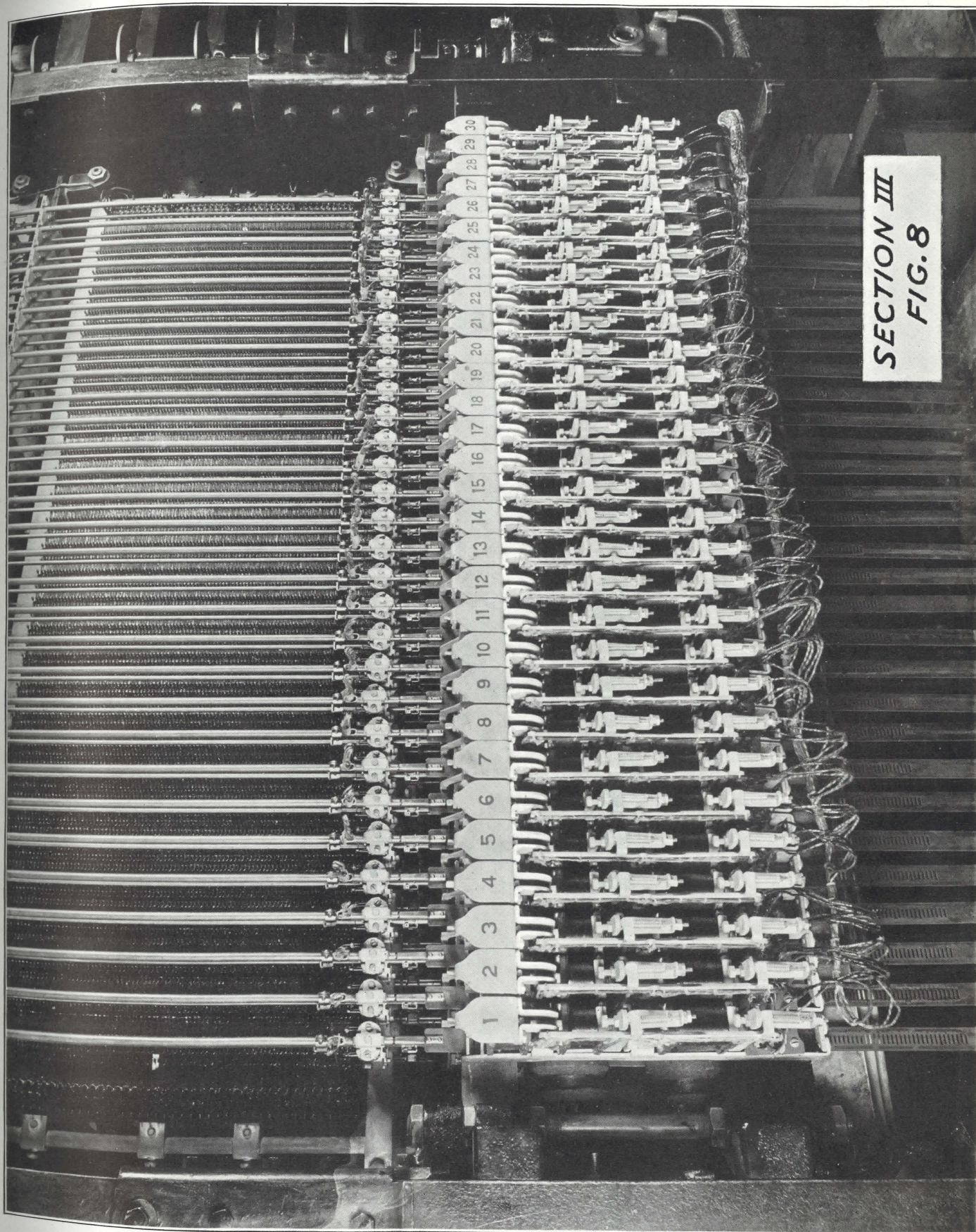


SECTION III
FIG. 6

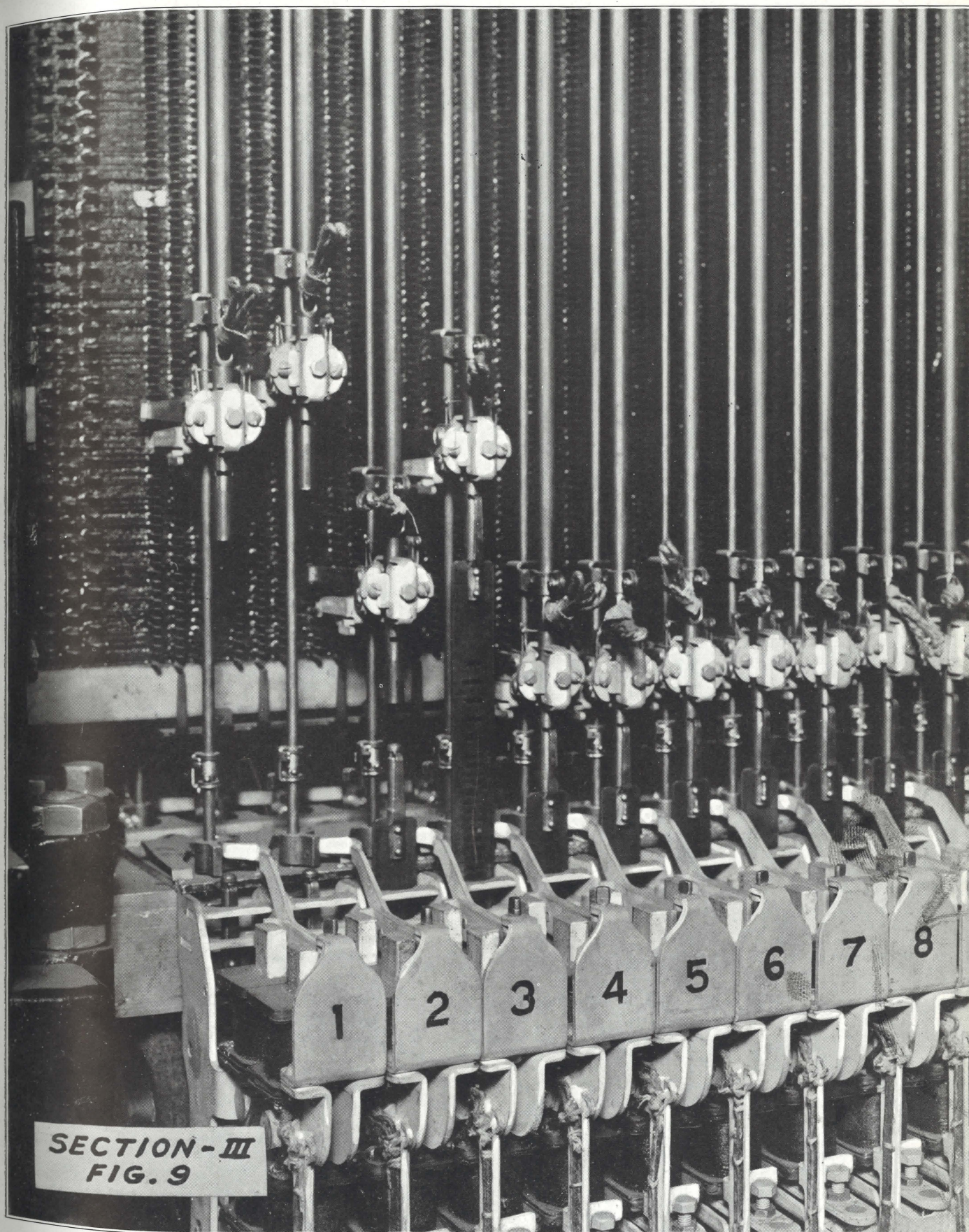
MULTIPLE BRUSH
BRUSH SUPPORT TRIP ROD ECT.
TRIAL FRAME AT MULBERRY EXCH
CASE 129906 6-17-18 N-J
8085

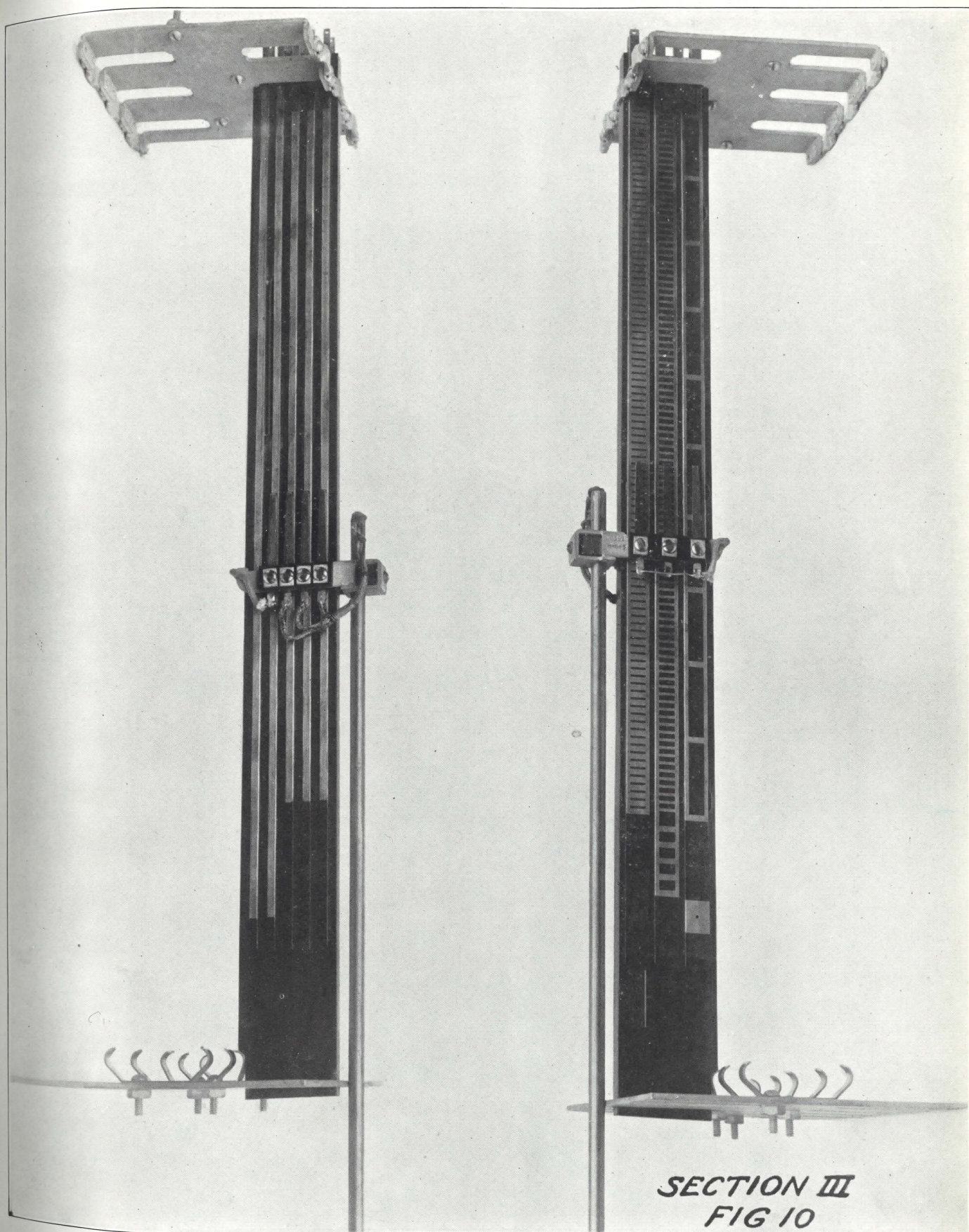


SECTION III
FIG 7

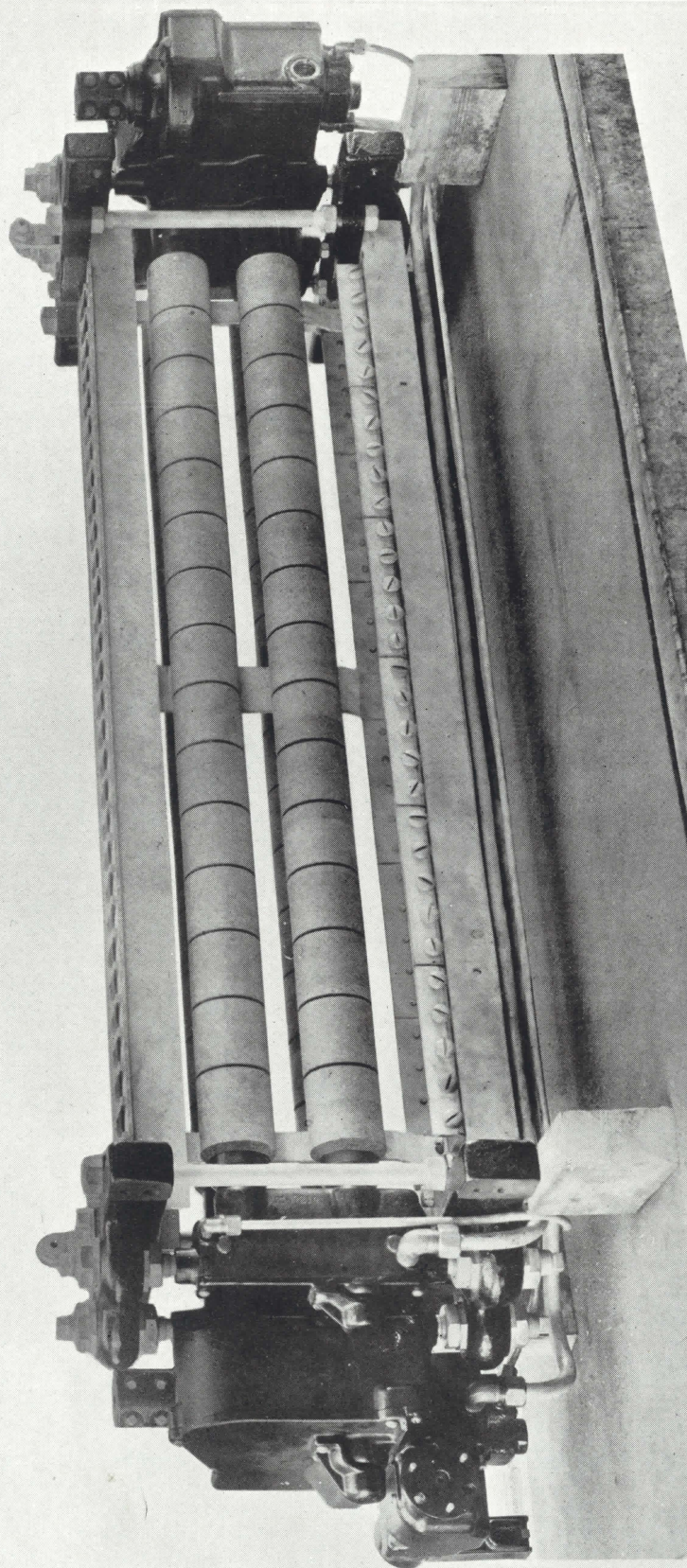


SECTION III
FIG. 8





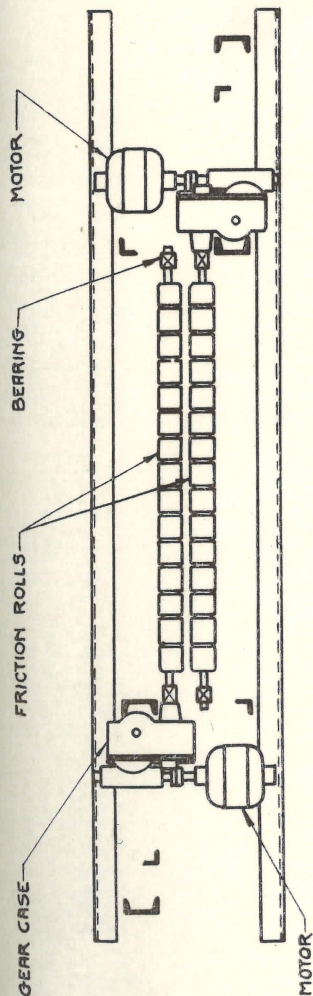
SECTION III
FIG 10



FRICTION ROLL DRIVE

SECTION III

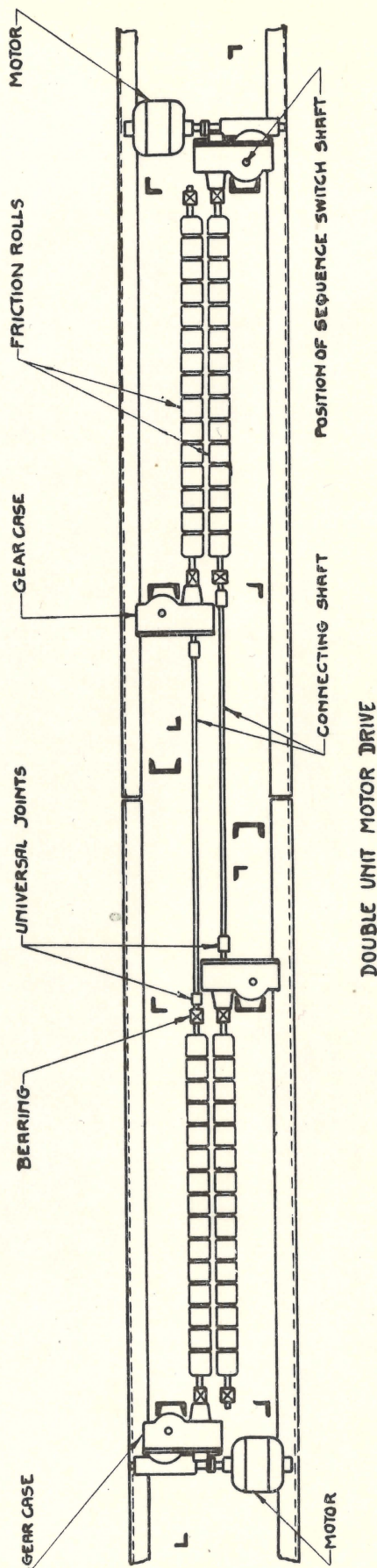
FIG. II



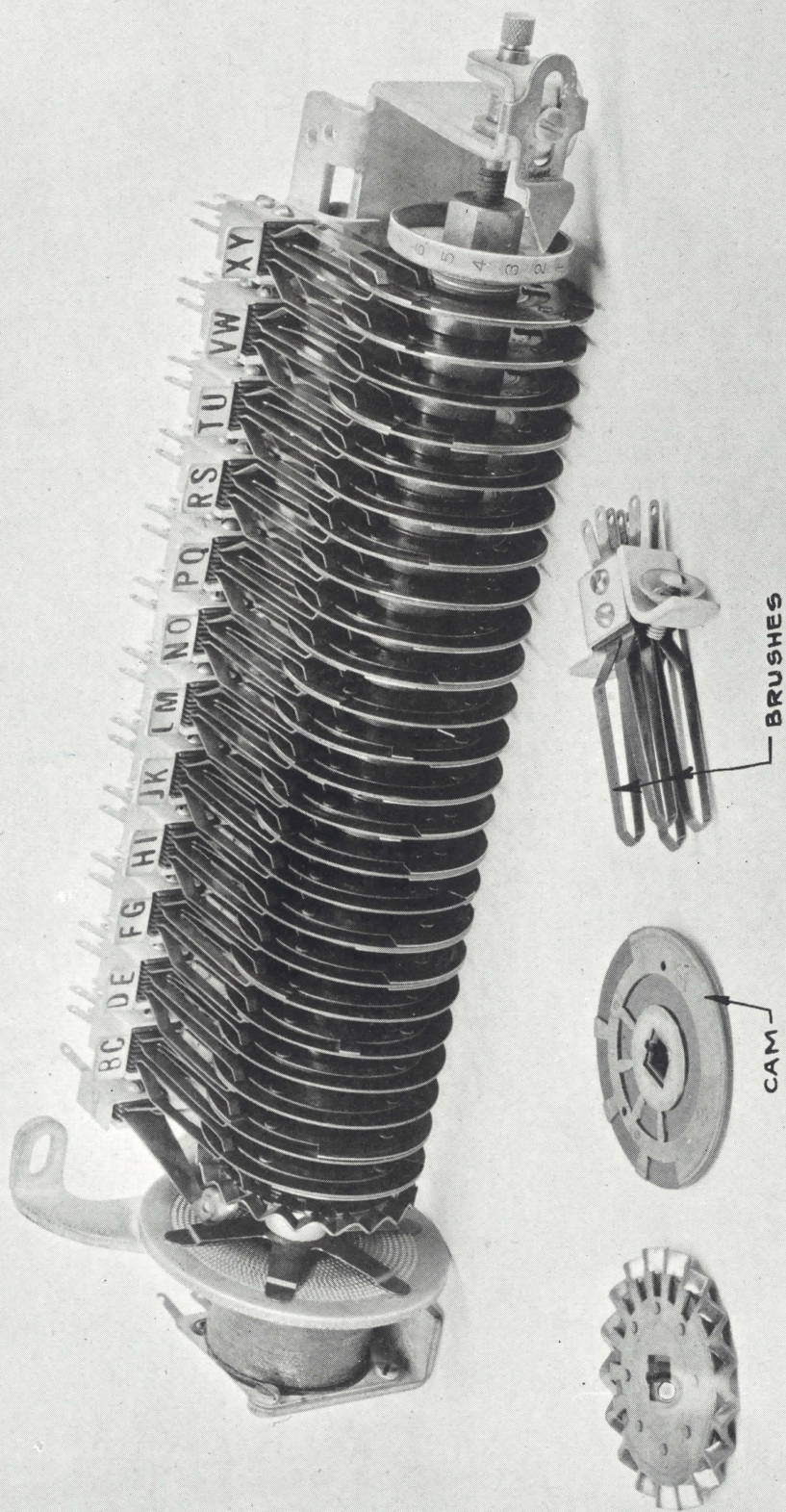
SINGLE UNIT MOTOR DRIVE

SCHEMATIC LAYOUT OF SELECTOR FRAMES
SHOWING
SINGLE AND DOUBLE UNIT MOTOR DRIVES
FULL MECHANICAL POWER DRIVEN SYSTEM

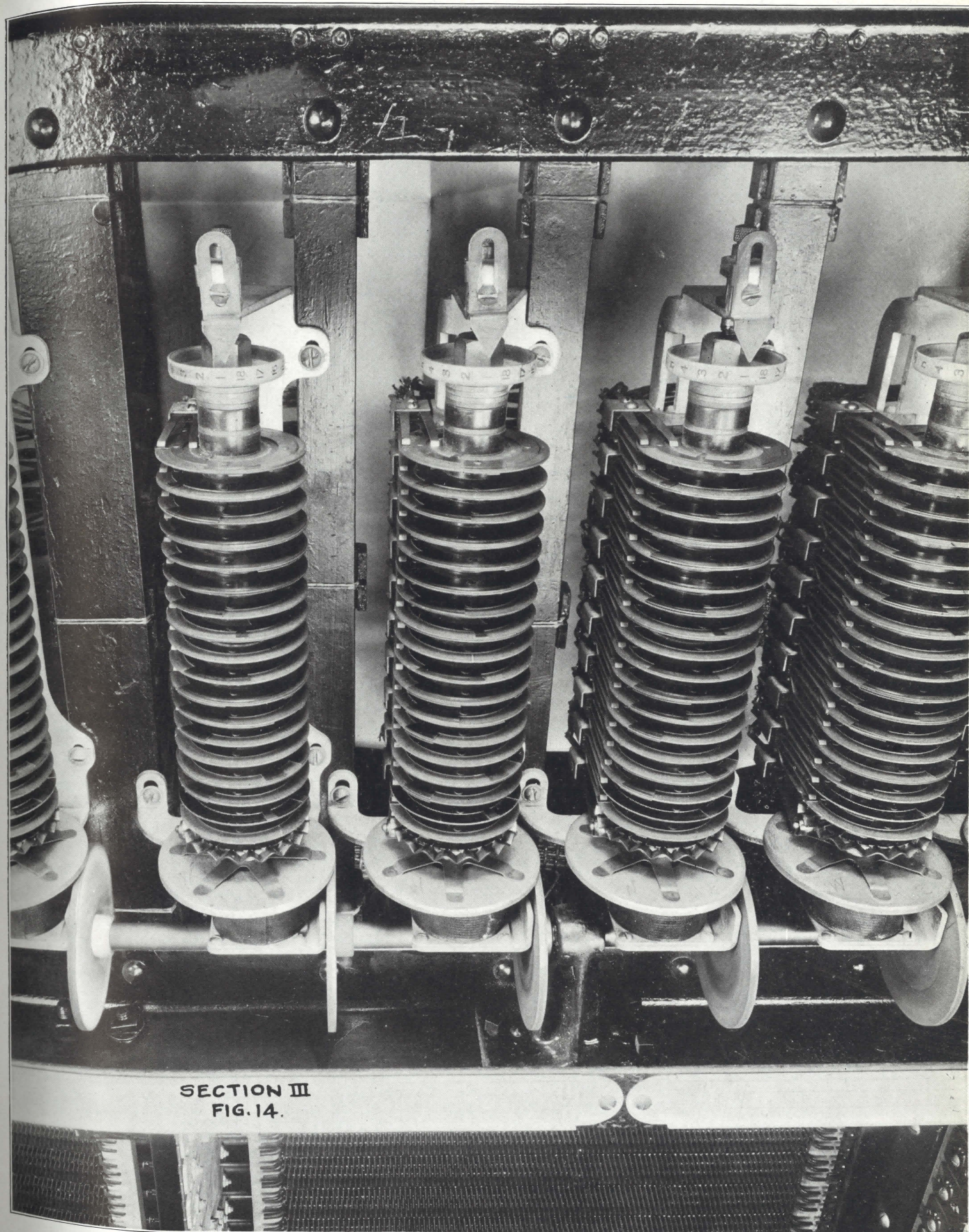
SCALE 1"=1FT



SCHEMATIC LAYOUT OF FRAMES
FOR UNIT MOTOR DRIVE

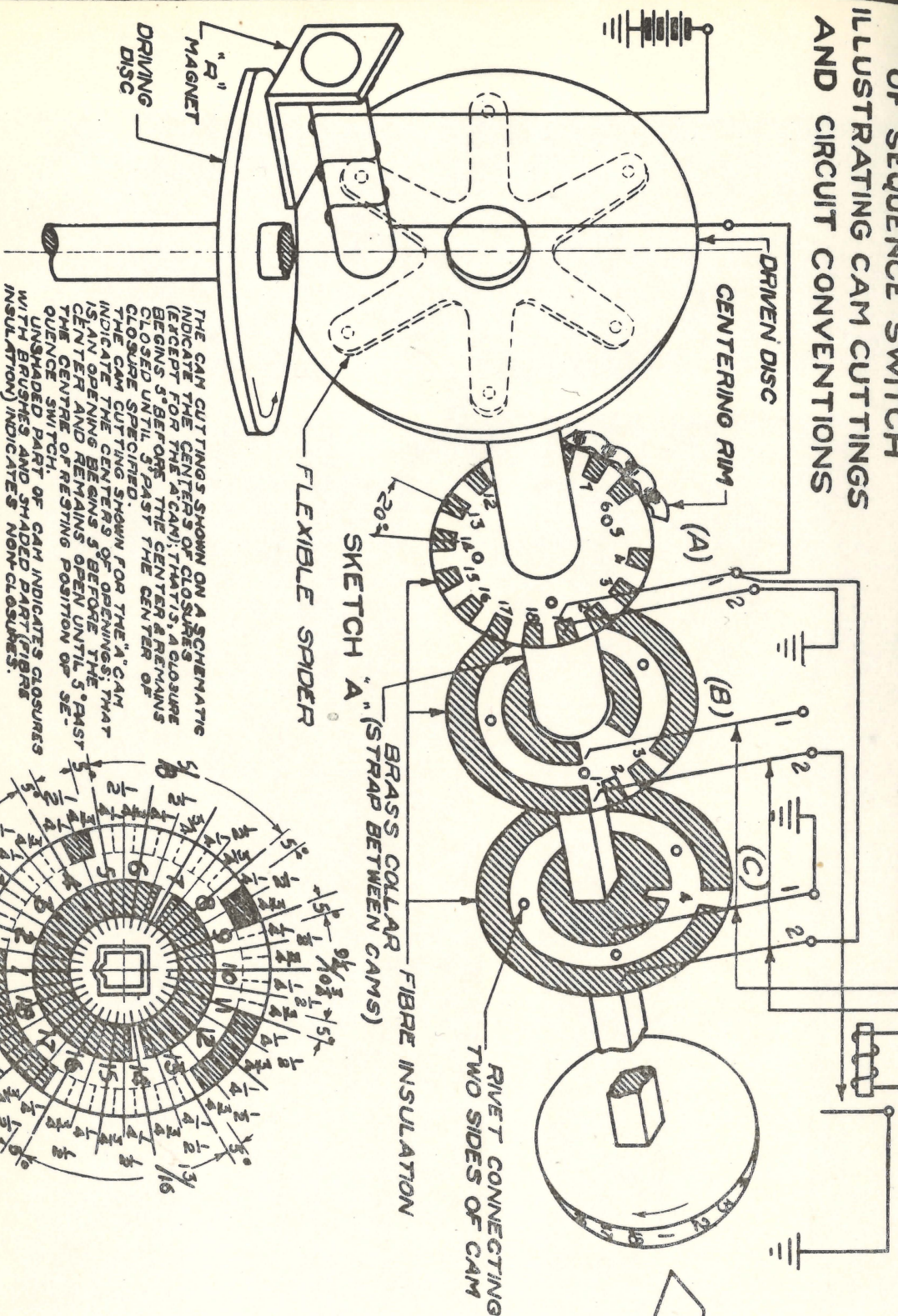


SEQUENCE SWITCH
SECTION III
FIG. 13



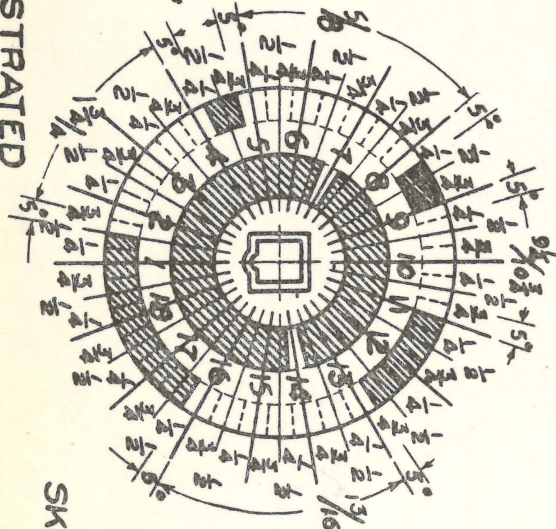
INFORMATION DRAWING SHOWING PARTIAL VIEW OF SEQUENCE SWITCH ILLUSTRATING CAM CUTTINGS AND CIRCUIT CONVENTIONS

TOP OUTER & INNER BRUSHES NOT SHOWN.
BOTTOM OUTER BRUSHES
BOTTOM INNER BRUSHES

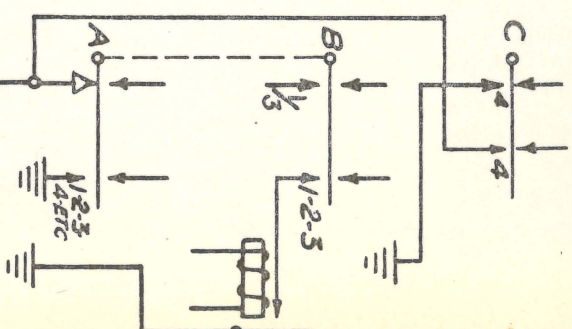


THE CAM CUTTINGS SHOWN ON A SCHEMATIC INDICATE THE CENTERS OF CLOSURES (EXCEPT FOR THE 'A' CAM); THAT IS, A CLOSURE BEGINS 5 BEFORE THE CENTER & REMAINS CLOSED UNTIL 3 PAST THE CENTER OF CLOSURE SPECIFIED. THE CAM CUTTING SHOWN FOR THE 'A' CAM INDICATE THE CENTERS OF OPENINGS; THAT IS, AN OPENING BEGINS 5 BEFORE THE CENTER & REMAINS OPEN UNTIL 3 PAST THE CENTER OF RESTING POSITION OF SEQUENCE SWITCH. UNSHADED PART OF CAM INDICATES CLOSURES WITH BRUSHES AND SHADED PART (FIBRE INSULATION) INDICATES NON-CLOSURES.

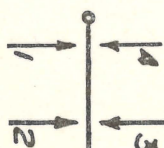
SEQUENCE SWITCH GRAPHICALLY ILLUSTRATED



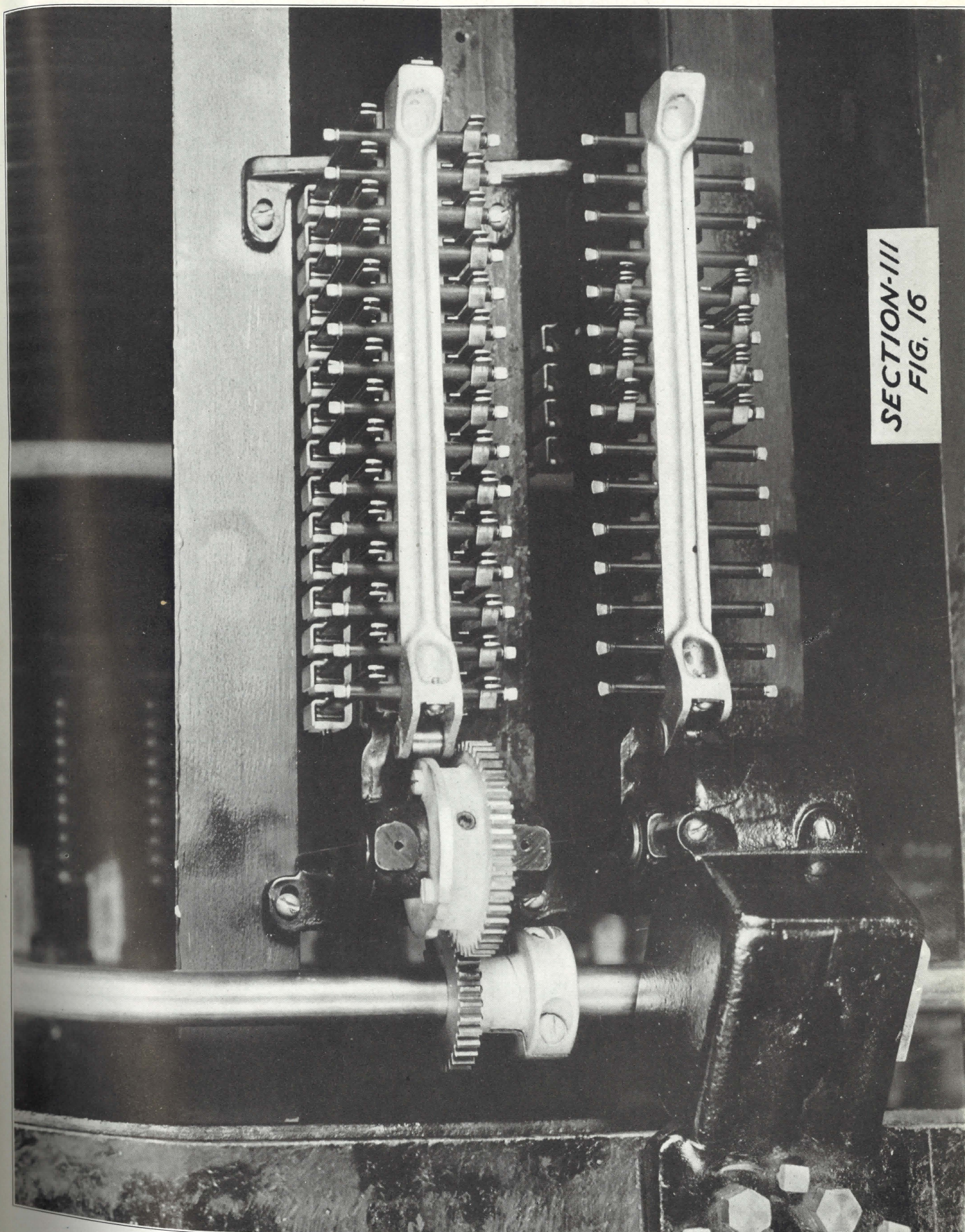
SKETCH 'C'



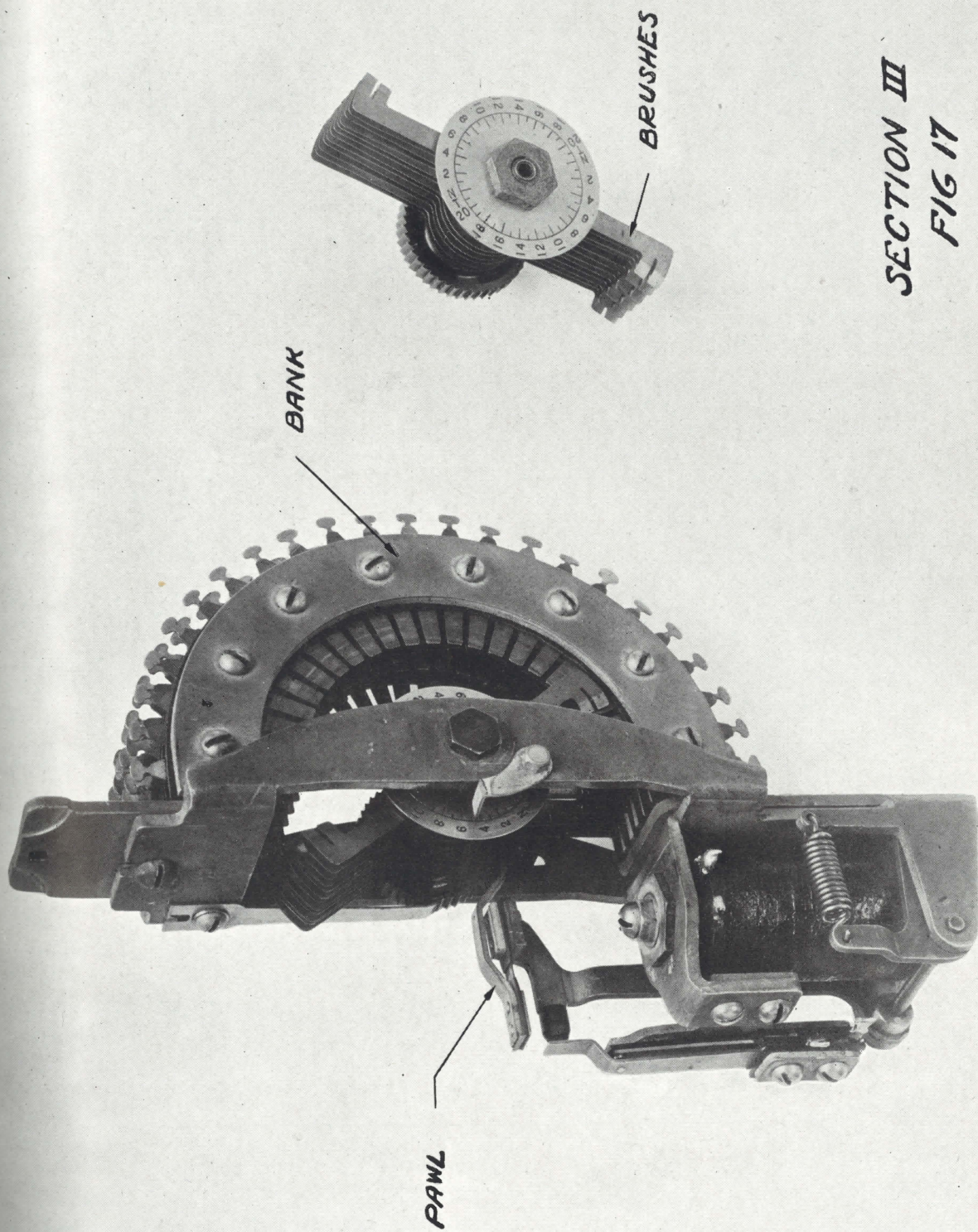
SKETCH 'B'



1-LEFT OR BOTTOM INNER CONTACT.
2-LEFT OR BOTTOM OUTER CONTACT.
3-RIGHT OR TOP OUTER CONTACT.
4-RIGHT OR TOP INNER CONTACT.
SECTION III FIG. 15



SECTION-III
FIG. 16

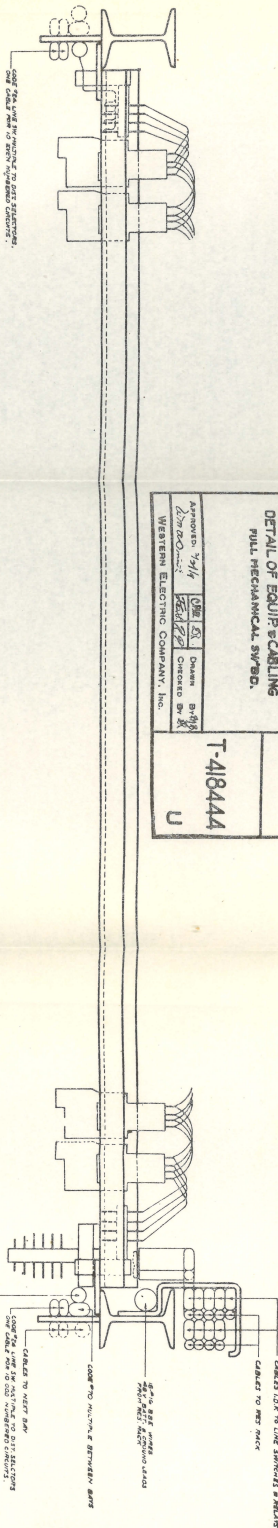


SECTION III
FIG 17

ROTARY LINE SWITCH

Section IV

Frames for Originating and Outgoing Traffic



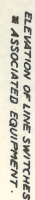
LINE SWITCH & RELAY RACK
DETAIL OF EQUIP & CABLEING
FULL MECHANICAL SWBD.

T-418444

APPROVED <i>W.H.H.</i>	DATE <i>2/28/50</i>	CHAS. BROWN
<i>W.H.H.</i>		CHECKED BY <i>W.H.H.</i>

WESTERN ELECTRIC COMPANY, INC.

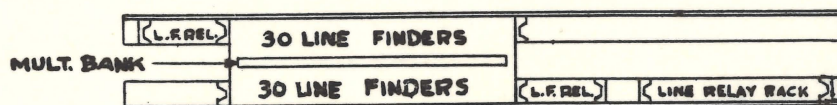
U



MACHINE SWITCHING SYSTEM

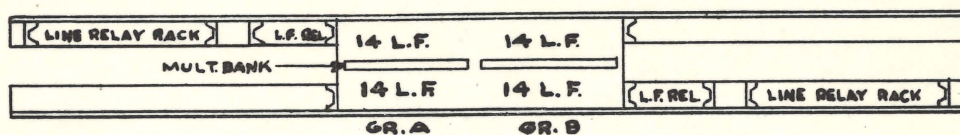
GROUPING OF LINE FINDER FRAMES

SKETCH 1



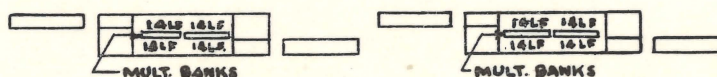
ONE LINE FINDER FRAME - GROUP 60 FINDERS - 300 LINES

SKETCH 2



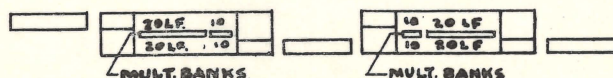
ONE LINE FINDER FRAME - 2 GROUPS 28 FINDERS EACH - 600 LINES

SKETCH 3



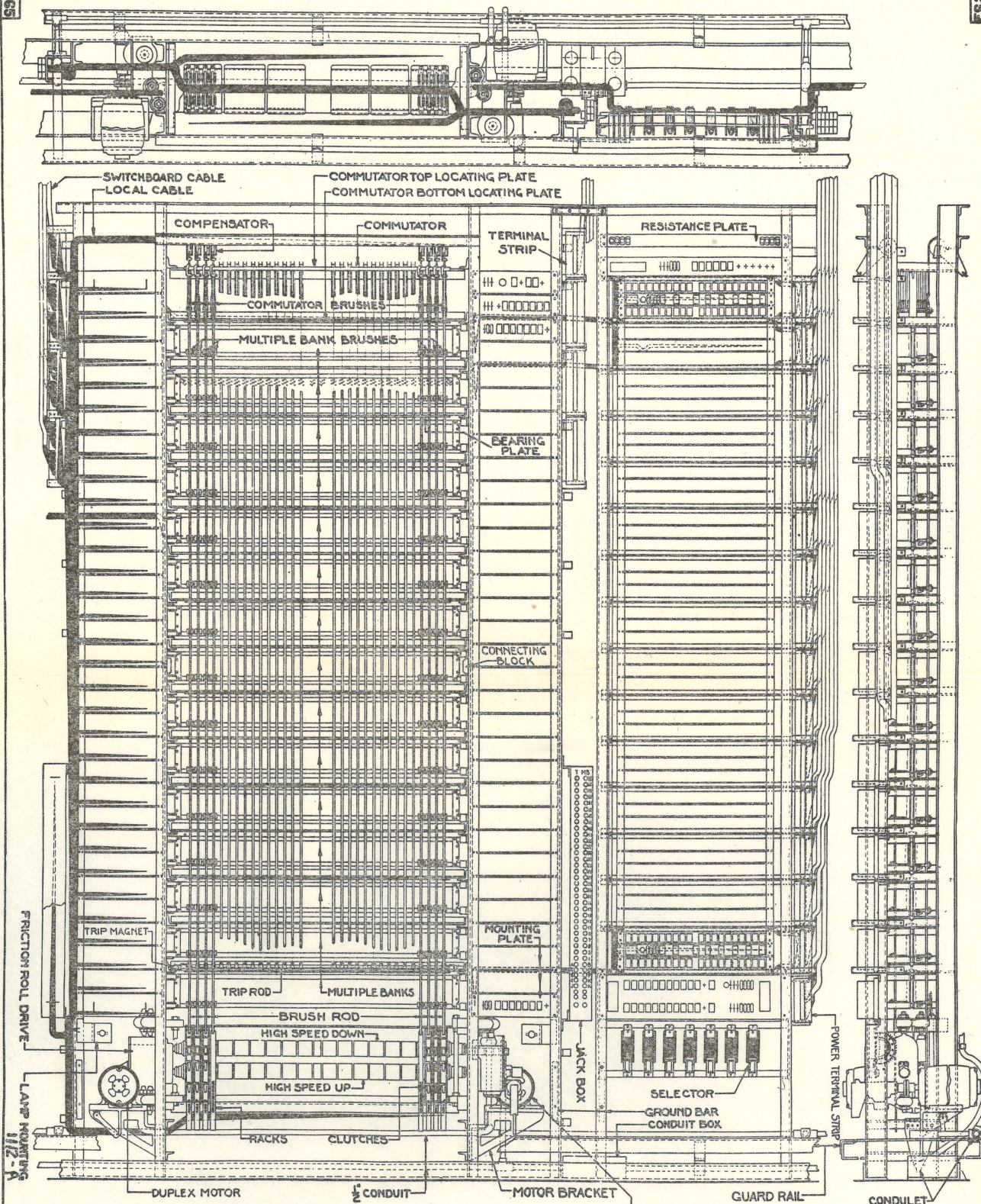
TWO LINE FINDER FRAMES - 4 GROUPS 28 FINDERS EACH - 1200 LINES

SKETCH 4



TWO LINE FINDER FRAMES - 3 GROUPS 40 FINDERS EACH - 900 LINES

SECTION IV
FIG. # 2
INFORMATION DRAWING
FLOOR PLAN LAYOUT
LINE FINDER FRAMES
FULL MECHANICAL POWER DRIVEN SYSTEM



SECTION IV
FIG. #3

TO BE OMITTED WHEN TWO FRAMES
ARE DRIVEN FROM ONE MOTOR

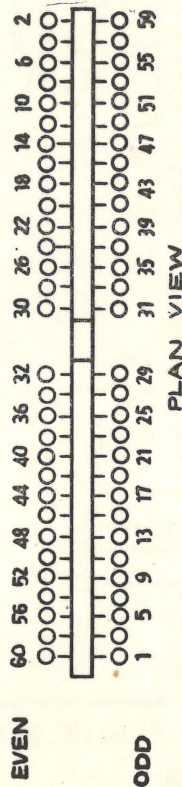
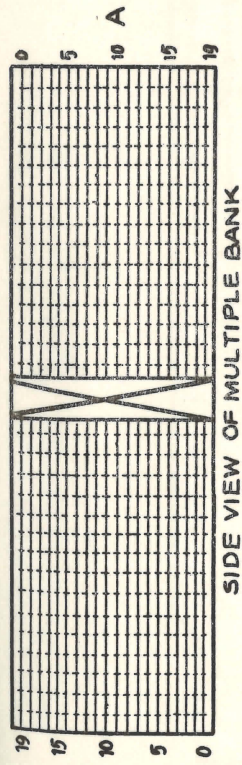
THIS FRAME IS ARRANGED
FOR APPARATUS AS
LISTED BELOW

- 30 TRIP MAGNETS
- 2 CONNECTING BLOCKS
- 15 MULTIPLE BANKS
- 60 COMMUTATORS
- 24 TERMINAL STRIPS
- 2 JACK BOXES
- 60 BRUSH RODS
- 1 FRICTION ROLL DRIVE
- 60 CLUTCHES
- 7 ROTARY SELECTORS
- 1 GROUND BAR
- 60 COMPENSATORS
- 81 MOUNTING PLATES
- 1 RESISTANCE PLATE
- 60 RACKS
- 42 BEARING PLATES
- 2 LAMP MOUNTINGS
- 6 COMMUTATOR TOP LOCATING PLATES
- 6 COMMUTATOR BOTTOM LOCATING PLATES
- 60 MULTIPLE BRUSHES
- 30 TRIP RODS
- 108 MOTOR BRACKETS
- 60 COMMUTATOR BRUSHES

INTERIOR DRAWING
60 SELECTOR GROUP
LINE FINDER FRAME
FULL MECHANICAL
POWER DRIVEN SYSTEM

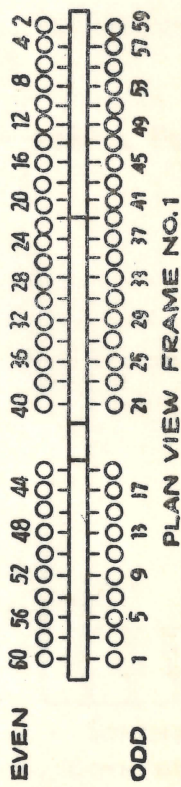
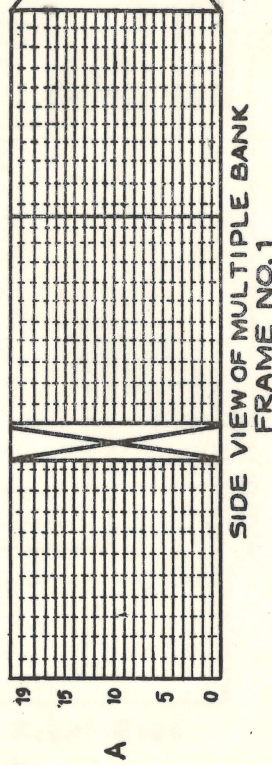
MACHINE SWITCHING SYSTEM PANEL TYPE

ARRANGEMENT OF LINE FINDER MULTIPLE BANKS



SKETCH 1

ARRANGEMENT OF MULTIPLE BANK USED FOR TERMINATING 300 LINES PER FRAME. 300 LINES MULTIPLIED BEFORE A MAXIMUM OF 40 LINE FINDERS

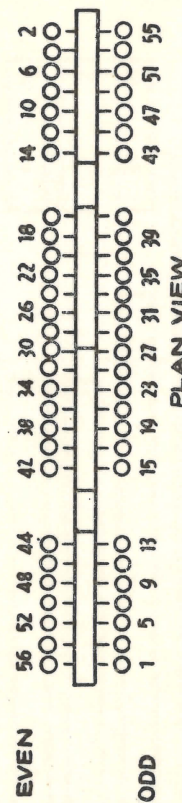
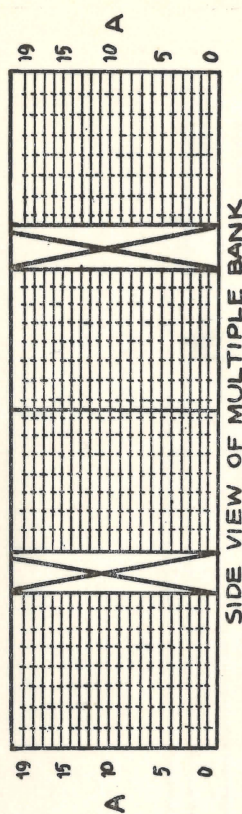


SKETCH 2

ARRANGEMENT OF MULTIPLE BANKS USED FOR TERMINATING 900 LINES ON TWO ADJACENT FRAMES. 300 LINES MULTIPLIED BEFORE A MAXIMUM OF 40 LINE FINDERS

MACHINE SWITCHING SYSTEM PANEL TYPE

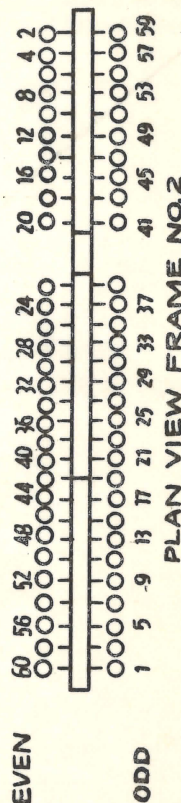
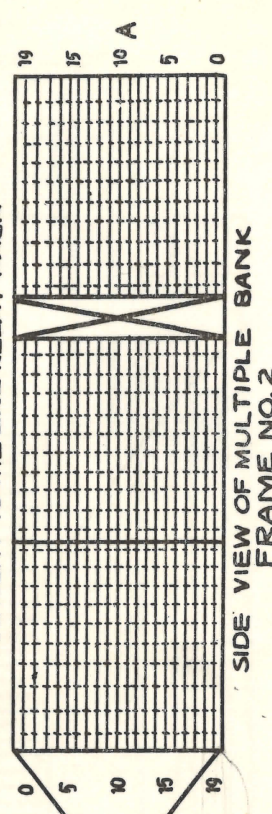
ARRANGEMENT OF LINE FINDER MULTIPLE BANKS



SKETCH 3

ARRANGEMENT OF MULTIPLE BANK USED FOR TERMINATING 600 LINES PER FRAME. 300 LINES MULTIPLIED BEFORE A MAXIMUM OF 28 LINE FINDERS

NOTE: "A" INDICATES THE END OF THE MULTIPLE BANKS ADJACENT TO THE LINE RELAY RACK

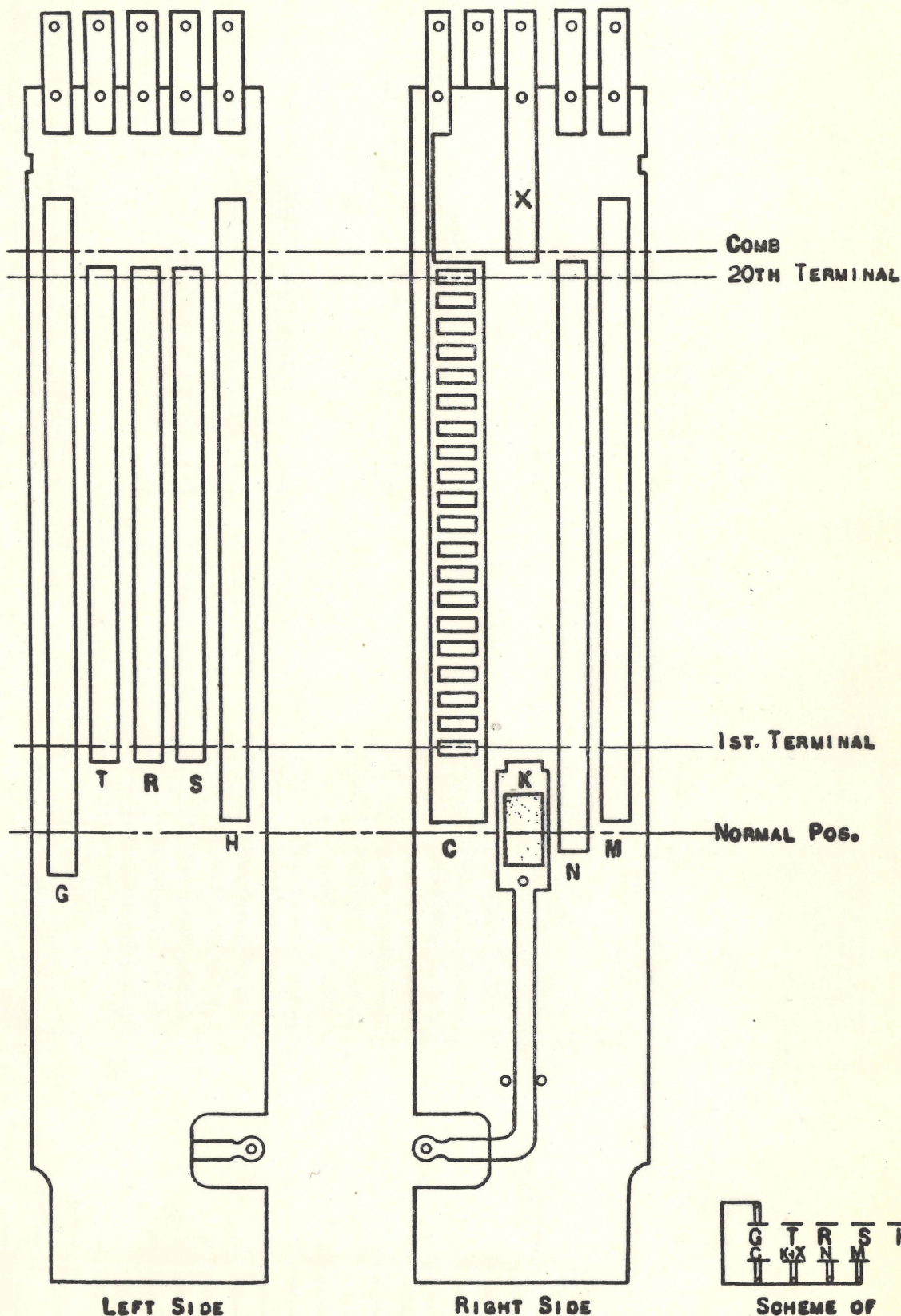


SKETCH 4

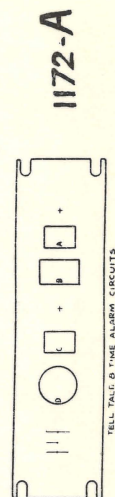
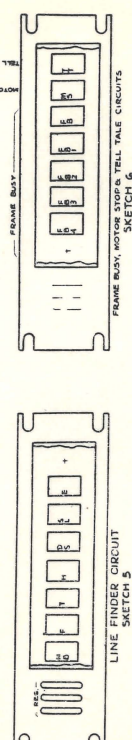
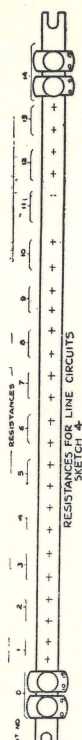
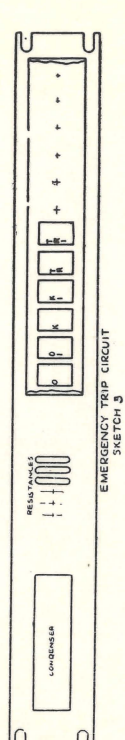
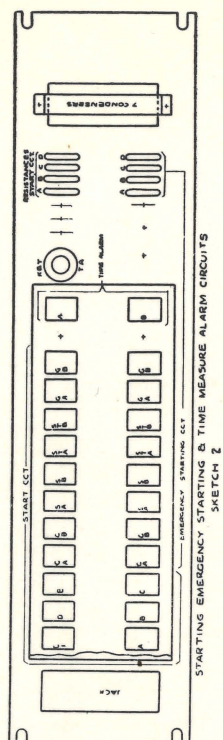
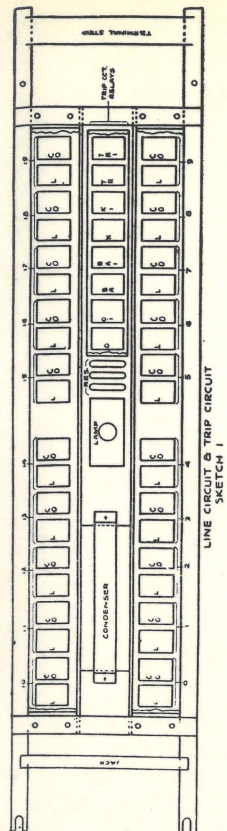
SECTION IV
FIG. NO. 4

MACHINE SWITCHING SYSTEM
PANEL TYPE
LINE FINDER COMMUTATOR

806 - 9
INFORMATION
SEPT. 1, 1920.
ENGINEER *MB*
DRAFTSMAN

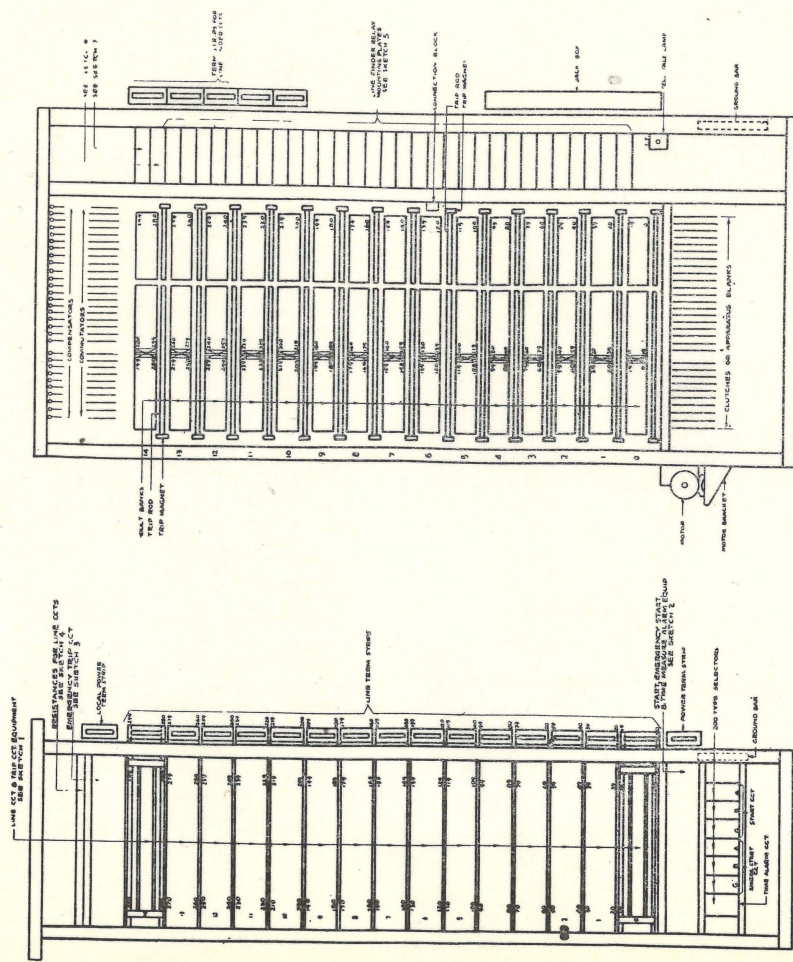


SECTION IV
FIG. 5



1172-A

TELL TALE & TIME ALARM CIRCUITS
SKETCH 7

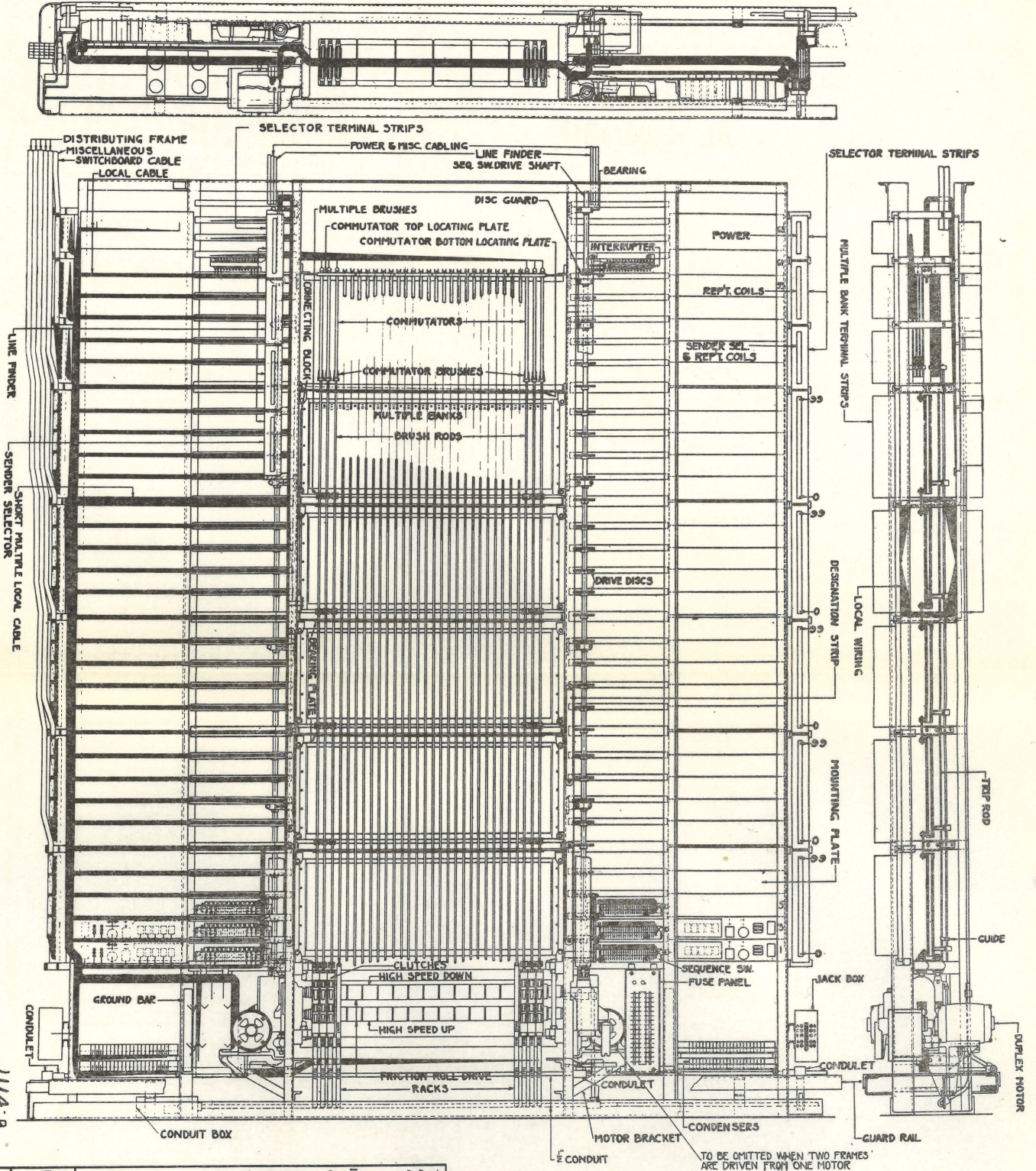


LINE FINDER
ARRANGEMENT FOR 40 LINE INDEXES
FOR 200 LINES

SECTION IV
FIG. NO. 6

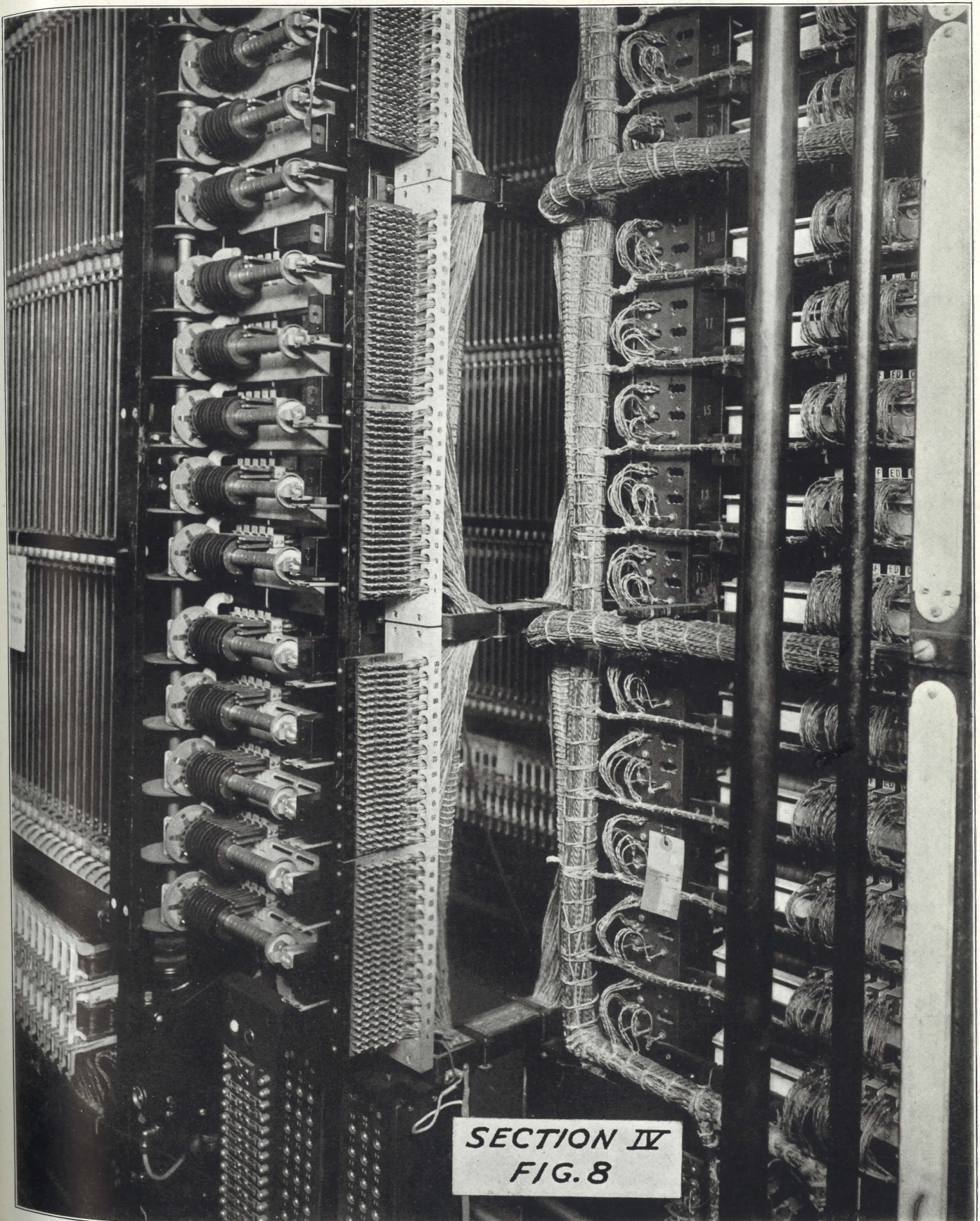
INFORMATION DRAWING
LINE FINDER FRAME AND
LINE FINDER CIRCUIT
FULL MECHANICAL POWER DRIVEN SYSTEM

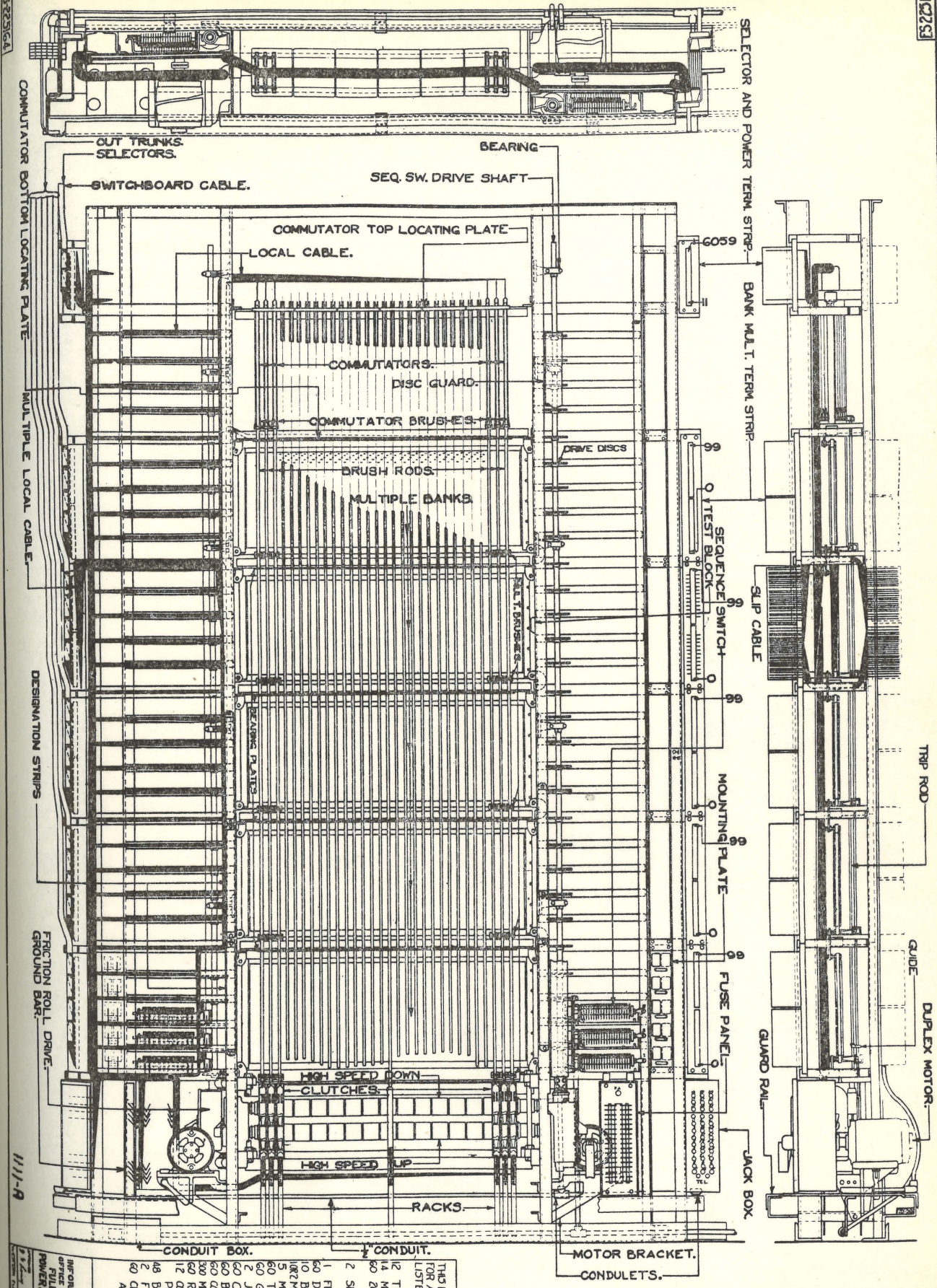
ES-249089	
U	
DESIGNED BY	CHIEF ENGINEER
CHECKED BY	CHIEF ENGINEER
APPROVED BY	CHIEF ENGINEER
WESTINGHOUSE ELECTRIC CO. NEW YORK, N.Y.	



SECTION IV
FIG. #7

THIS FRAME IS ARRANGED FOR APPROPRIATE AS LISTED BELOW	100 2 MOTOR BRACKETS 1 FRICTION ROLL DRIVE 2 RACKS 2 FUSE PANELS 2 JACK BOXES 2 GUIDES 2 TRIP RODS 2 BEARING PLATES 2 INTERRUPTERS 2 CONDENSERS 5 MULTIPLE BANKS 60 COMMUTATOR BRUSHES 300 MULTIPLE BRUSHES 12 COMMUTATORS 12 COMMUTATOR LOCATING PLATES 60 SEQ. SW. DRIVE DISCS 2 SEQ. SW. DRIVE SWIFT 12 BEARINGS 64 TERMINAL STRIPS 64 MOUNTING PLATES 10 SEQUENCE SWITCHES 10 DESIGNATION STRIPS
--	--

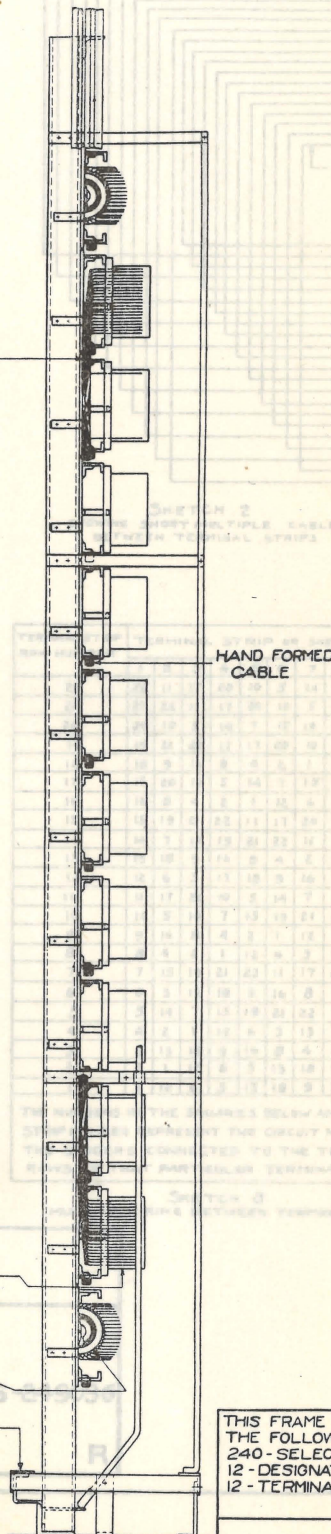
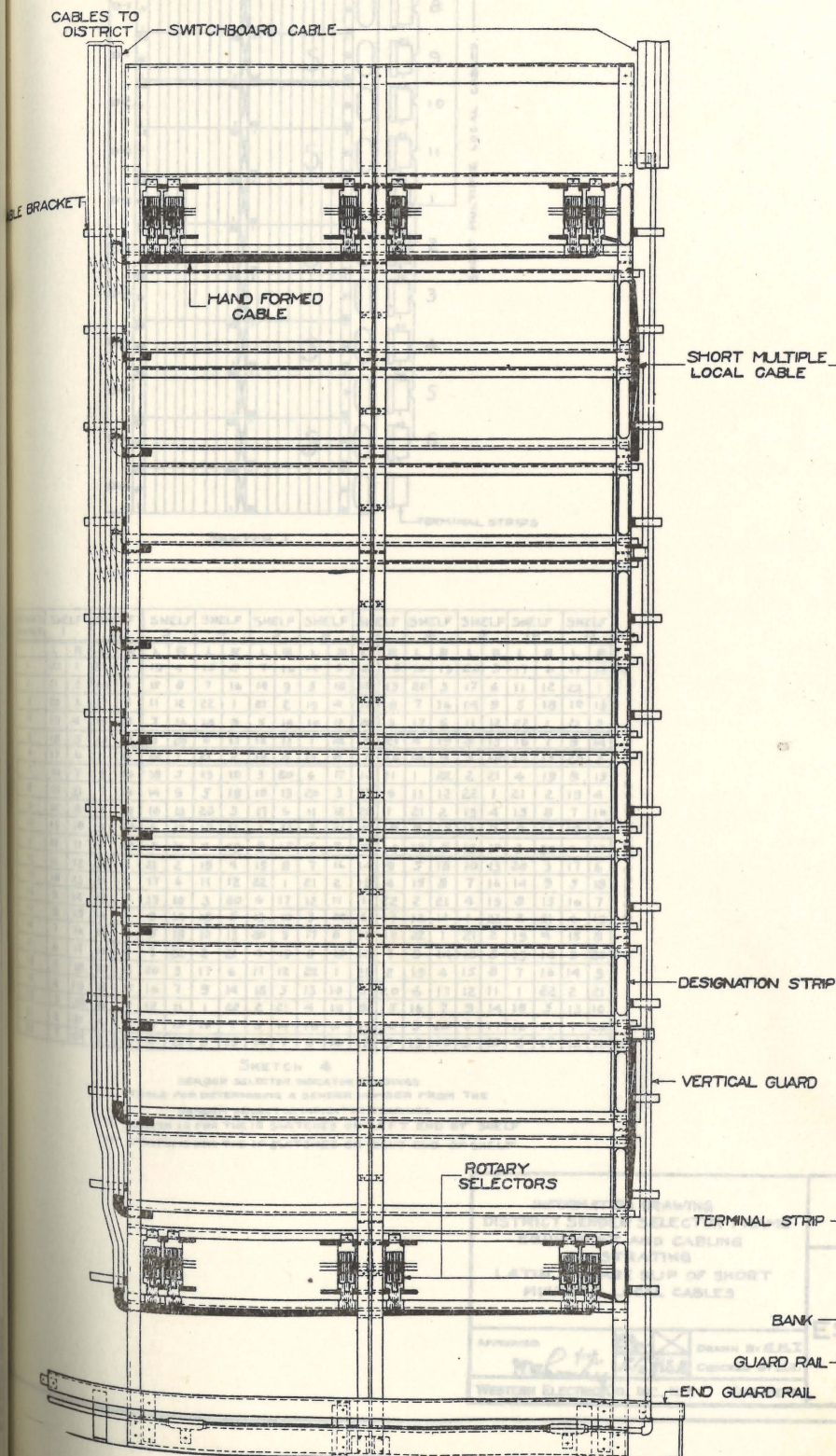
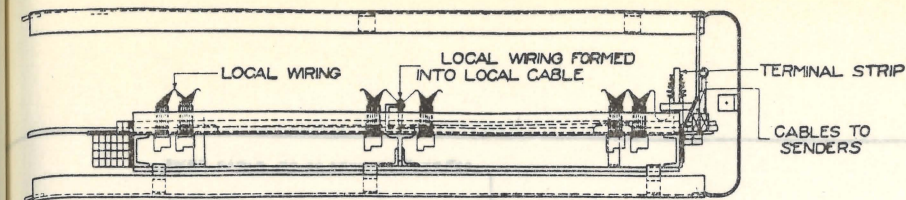




SECTION IV
FIG.#9

- THIS FRAME ARRANGED FOR APPARATUS AS LISTED BELOW
- 12 TERMINAL STRIPS.
 - 14 MOUNTING PLATES
 - 20 CAM SEQUENCE SWITCHES
 - 2 SEQUENCE SWITCH SHAFTS.
 - 1 FRICTION ROLL DRIVE.
 - 60 DRIVE DISCS.
 - 10 BEARINGS.
 - 1082 MOTOR BRACKETS
 - 5 MULTIPLE BANKS
 - 60 TRIP RODS.
 - 60 GUIDES.
 - 2 JACK BOXES.
 - 60 COMMUTATORS.
 - 60 BRUSH RODS.
 - 60 MULTIPLE BRUSHES.
 - 60 RACKS.
 - 12 COMMUTATOR LOCATING PLATES (see note)
 - 48 BEARING PLATES
 - 2 FUSE PANELS
 - 60 CLUTCHES OR APPARATUS DRAWING

INFORMATION DRAWING
OFFICE SELECTOR FRAME
FULL MECHANICAL
POWER DISTRIBUTION
1523164
1111-A



SECTION IV
FIG. #10

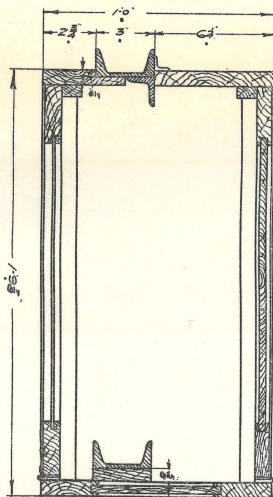
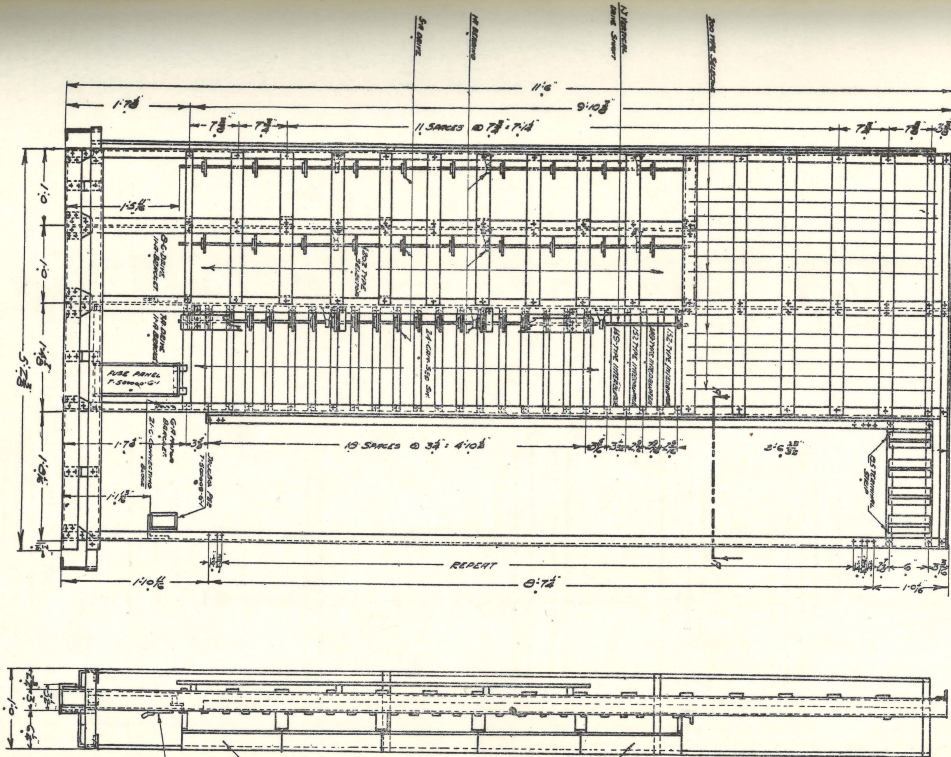
THIS FRAME IS ARRANGED FOR THE FOLLOWING APPARATUS
240-SELECTORS WITH BANKS
12-DESIGNATION STRIPS
12-TERMINAL STRIPS

INFORMATION DRAWING
DISTRICT SENDER SEL FRAME
FULL MECHANICAL
POWER DRIVEN SYSTEM

APPROVED: [Signature] DATE: [Date]
DRAWN BY: [Signature] CHECKED BY: [Signature]
WESTINGHOUSE ELECTRIC CO. NEW YORK, N.Y.

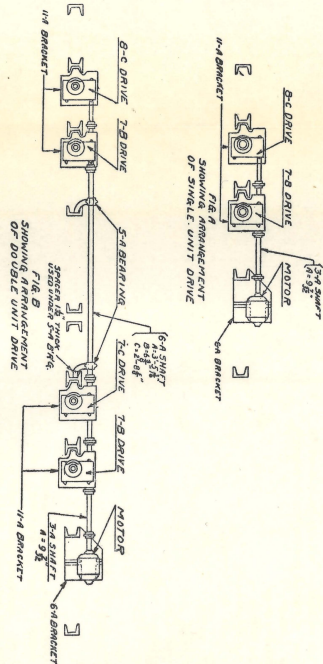
ES-225168

1115-R



Sitz: A.H.

SHOWING REARRANGEMENT OF RIBBY DAY CREEK



SECTION IV
FIG. #12

NOTES:-

*THIS TABLE REARRANGED FOR CLARITY AS LISTED BELOW

- [illegible]

NOTE:

1- WHEN USED WITH REEF CRABING WITH TWO MOUNTINGS ON 2-1/2" MOUNTING PLATES 1-7" IS ON 2 CARTRIDGES AND 2 DESIGNATION SLIDES
2- WHEN DAY TYPE CONDENSER MOUNTING PLATE IS USED ON ONE CARTRIDGE
3- DESIGNATION SLIP FOR EACH DAY TYPE CONDENSER MOUNTING PLATE.

SENDER FRAME SUBSCRIBERS
FOR LINE FINDER OFFICE- TWO DIGIT CODE
11-6 HIGH
CAPACITY FIVE SENDERS
FULL MECHANICAL POWER DRIVE SYSTEM

183° 171.

APPROVED: *[Signature]* 12-4-80. *[Signature]*

1775
1776
1777

WESTERN ELECTRIC CO., INC., N.Y. ENG. DEPT.

ENG. DEPT.

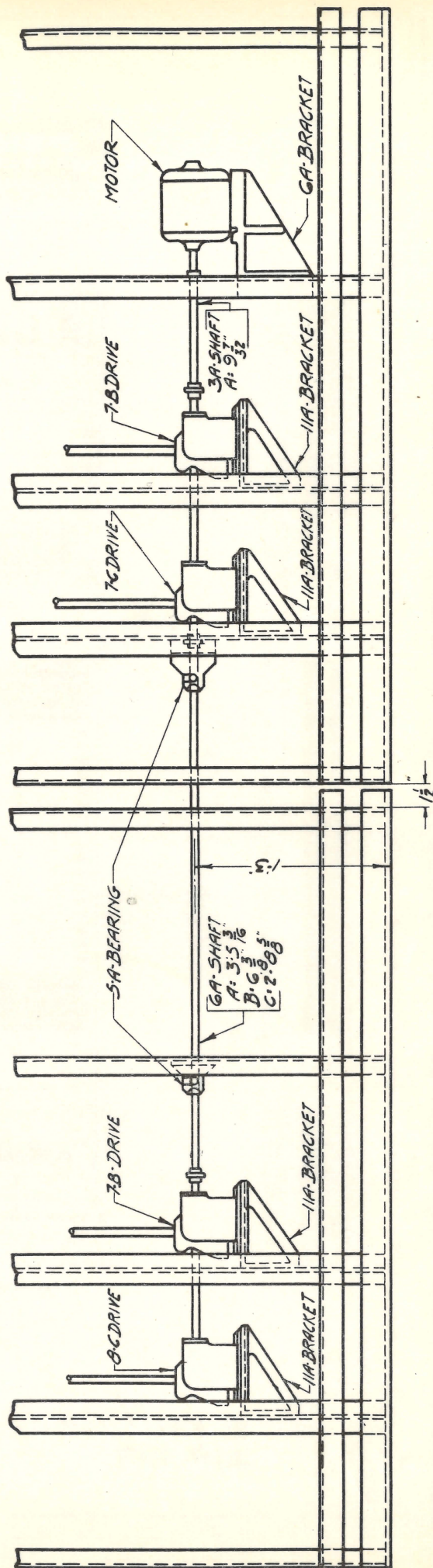
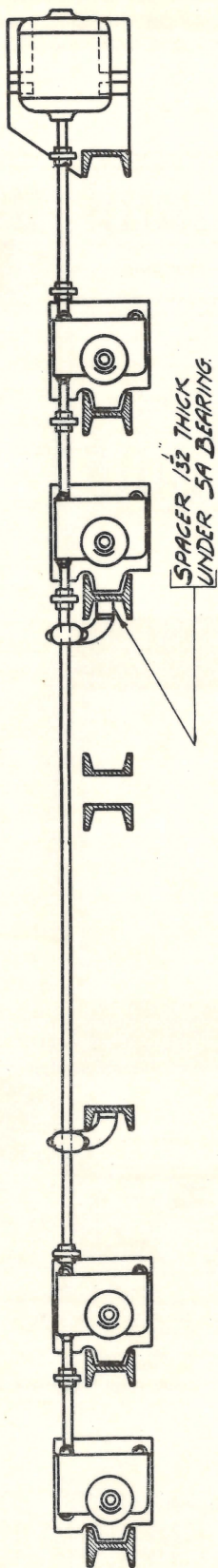
1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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APP'D

13302-1 9-23-60
FIG. 5A, B WERE NOT
SHOWN. 1202 TYPE
SELECTOR'S WERE
DESIRED FOR TYPE SEL-
ECTOR'S.
CASE 200698 \$45.31
13302-2 1-19-61 200698
44000

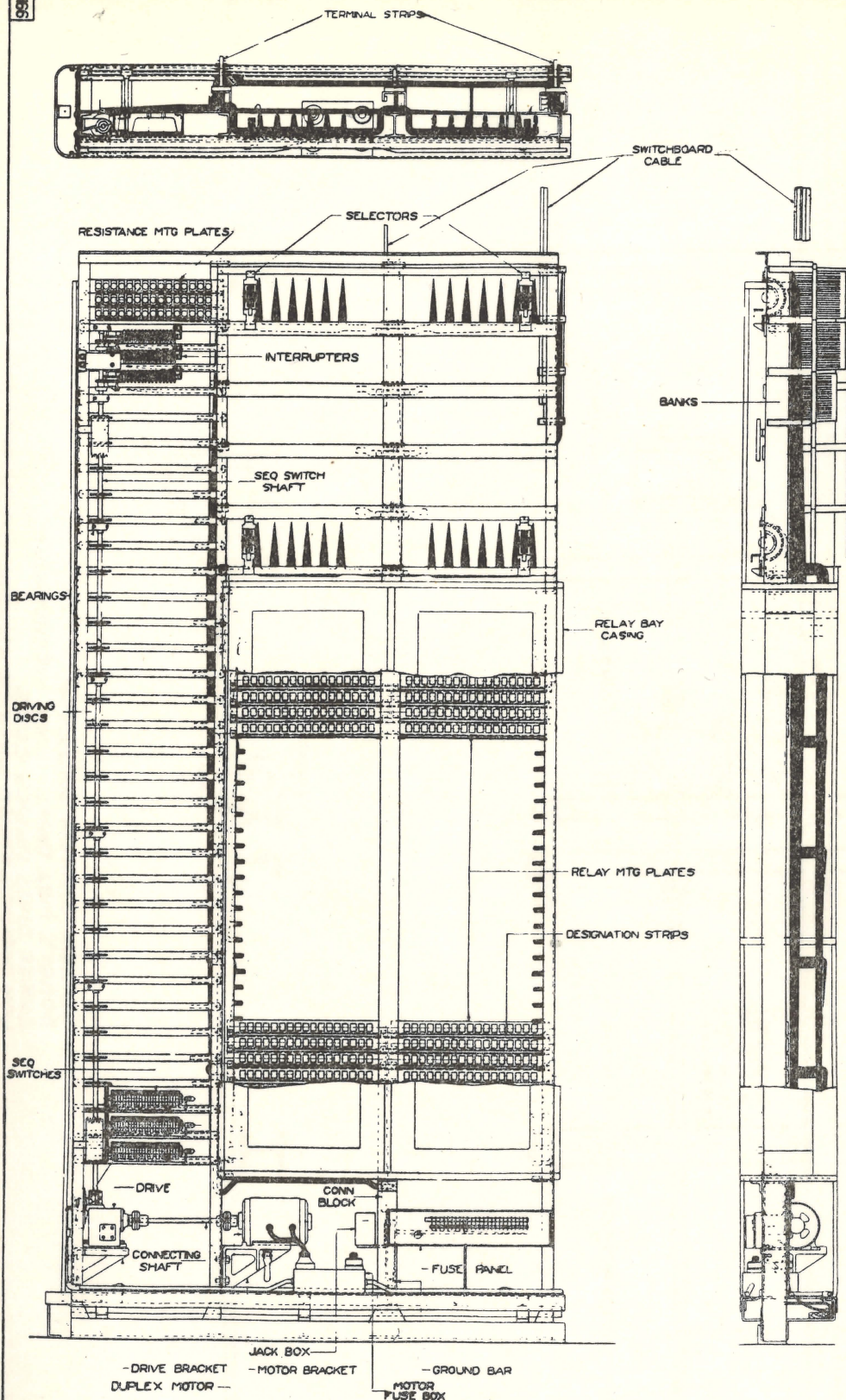
DRIVE AND SHAFT ARRANGEMENT
FOR SUBSCRIBERS' SENDER FRAME
TWO DIGIT OFFICE CODE
DOUBLE UNIT DRIVE FULL MECHANICAL
POWER DRIVEN SYSTEM



SECTION IV
FIG. 13

FRAME NO-1

FRAME NO-2



SECTION IV
FIG. #14

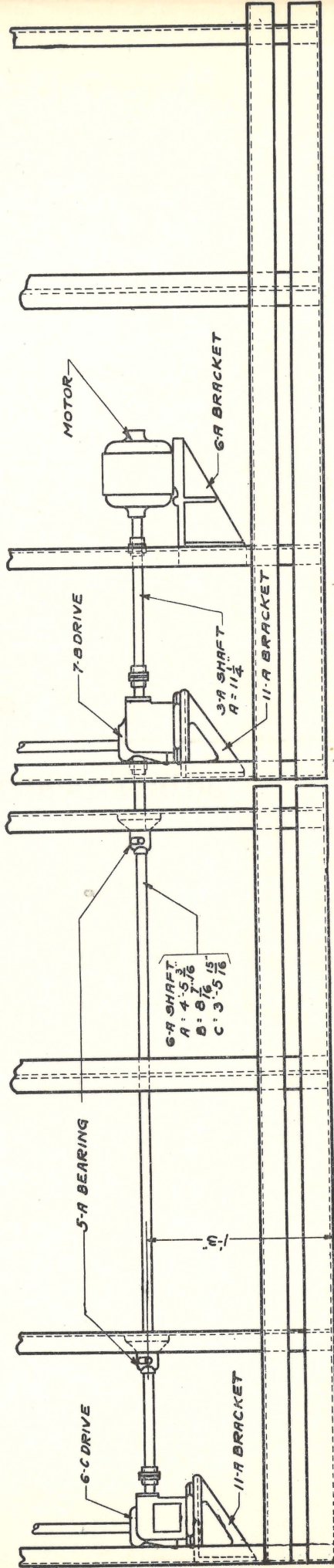
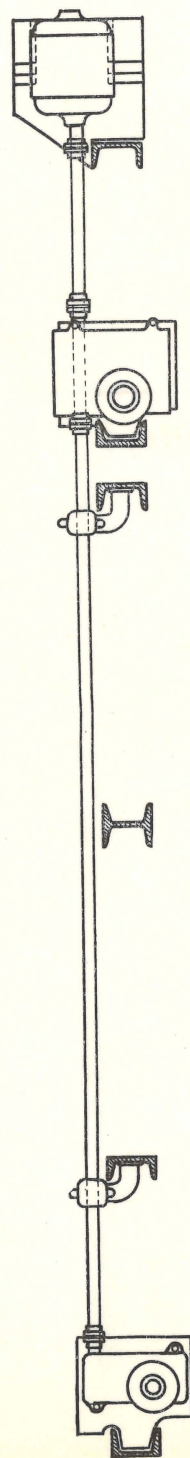
THIS DRAWING IS ARRANGED FOR THE FOLLOWING APPARATUS:
 3- INTERRUPTERS
 30- SEQUENCE SWITCHES
 30- DRIVING DISCS
 1- SEQ SW SHAFT
 1- JACK BOX
 85- SELECTORS
 73- MTG PLATES
 1- RELAY BAY CASING
 1- DRIVE
 1- MOTOR BRACKET
 1- CONNECTING SHAFT
 72- DESIGNATION STRIPS
 1- FUSE PANEL
 1- JACK BOX
 1- GROUND BAR
 1- TERMINAL STRIPS

INFORMATION DRAWING
 SUBSCRIBERS: SENDER POWER
 3 DIGIT OFFICE CODE
 FULL TECH POWER, DRW, SYS.

APPROVED: [Signature]
 DATE: 11/1/54
 BY: [Signature]

ES-22366

DRIVE AND SHAFT ARRANGEMENT
FOR SUBSCRIBERS SENDER FRAME
THREE DIGIT OFFICE CODE
DOUBLE UNIT DRIVE. FULL MECHANICAL
POWER DRIVEN SYSTEM.



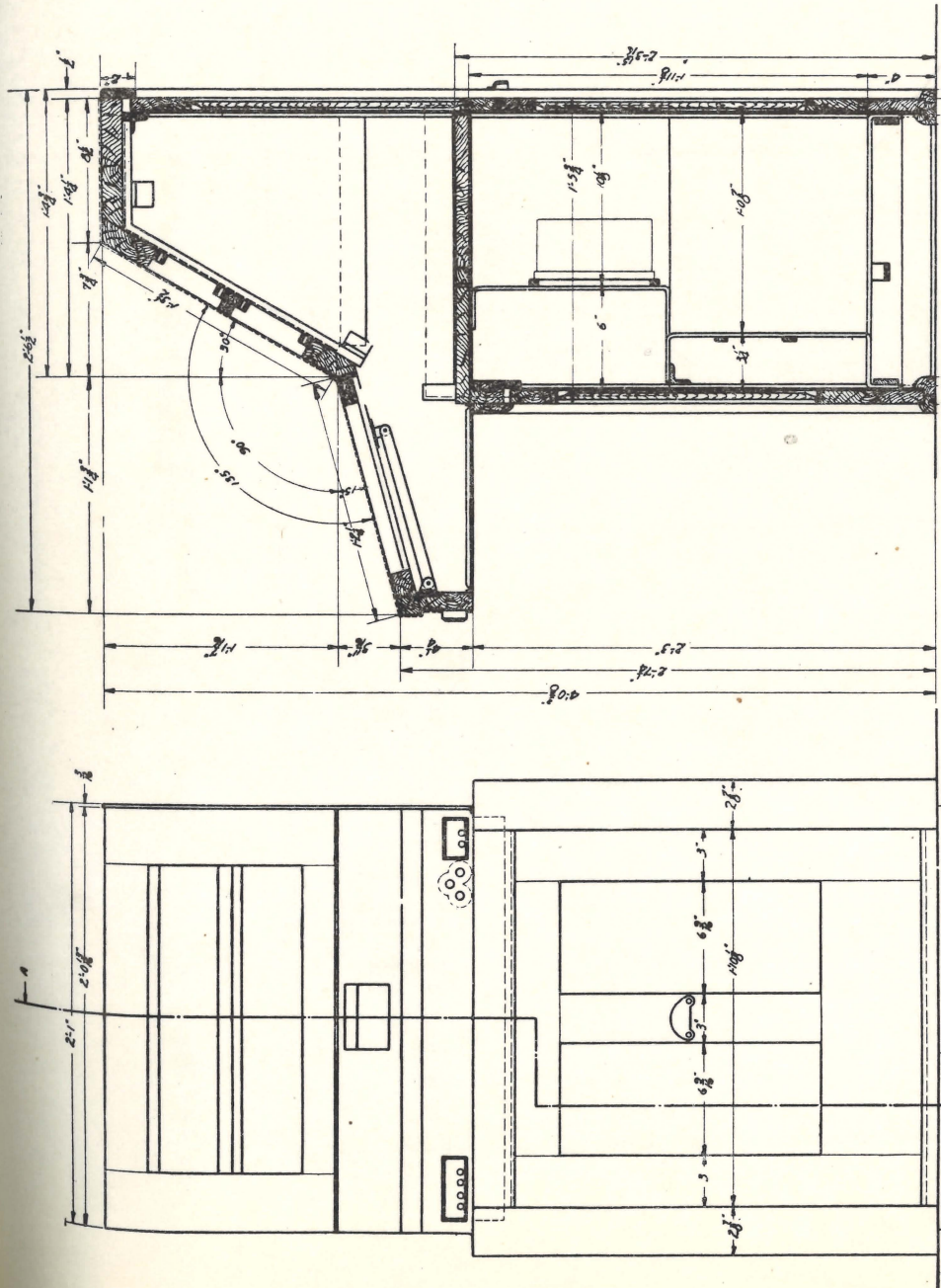
SECTION IV
FIG. 15

FRAME NO. 1.

FRAME NO. 2.

Section V

Frames for Incoming Traffic



FRONT VIEW

SECTION A-A

SECTION I FIG. 1

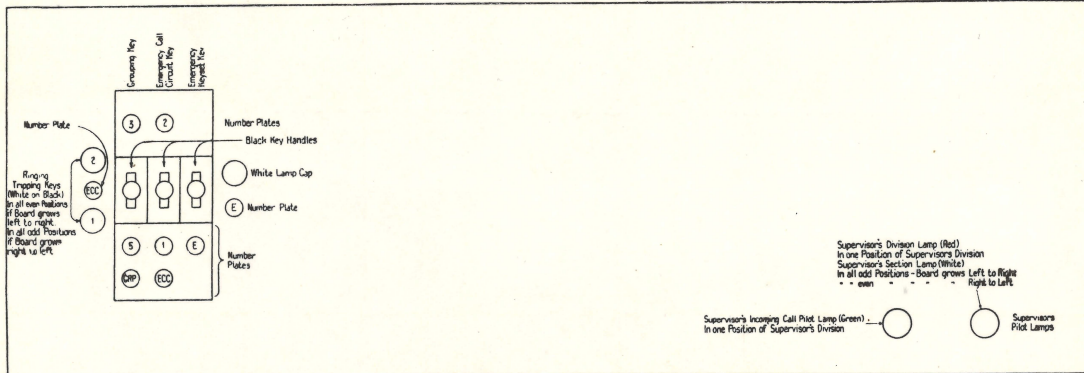
REAR VIEW

INFORMATION DRAWING SECTION ASSEMBLY ONE POSITION CORDLESS SECTION FULL MECHANICAL POWER DRIVEN SYSTEM		SCALE: 3" = 1 FT.		DRAWN BY: <i>W. P. G.</i> CHECKED BY: <i>G. S.</i>		ES249098		R	
APPROVED: <i>W. P. G.</i>		WESTERN ELECTRIC CO. INC. N.Y.		ENG. DEPT.					

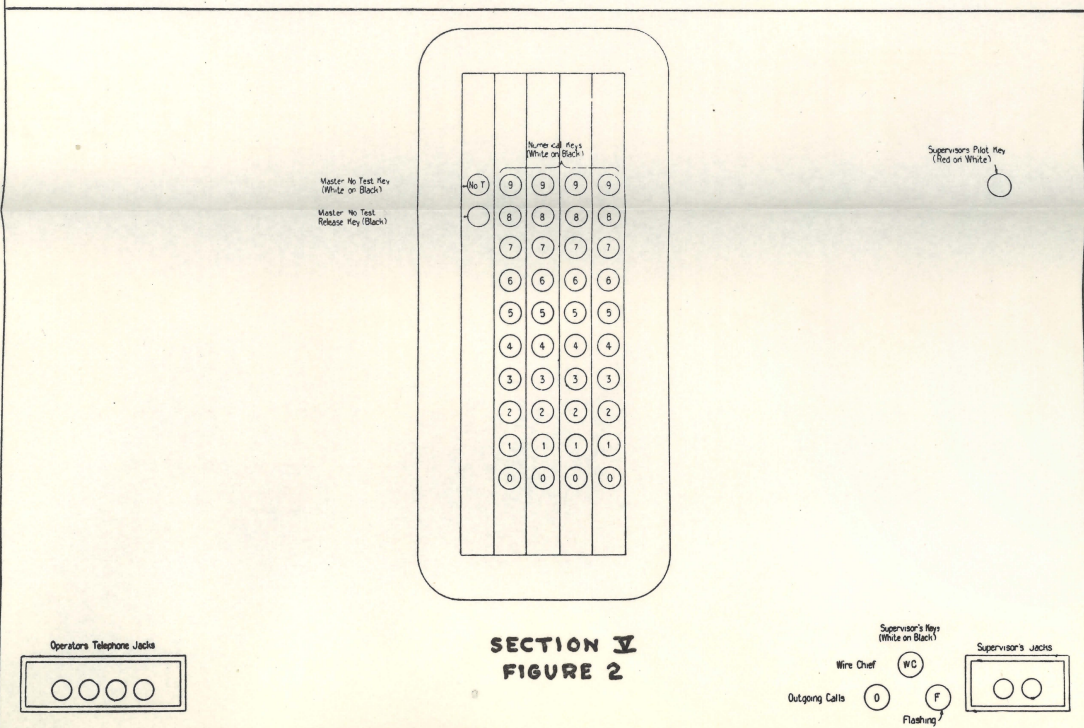
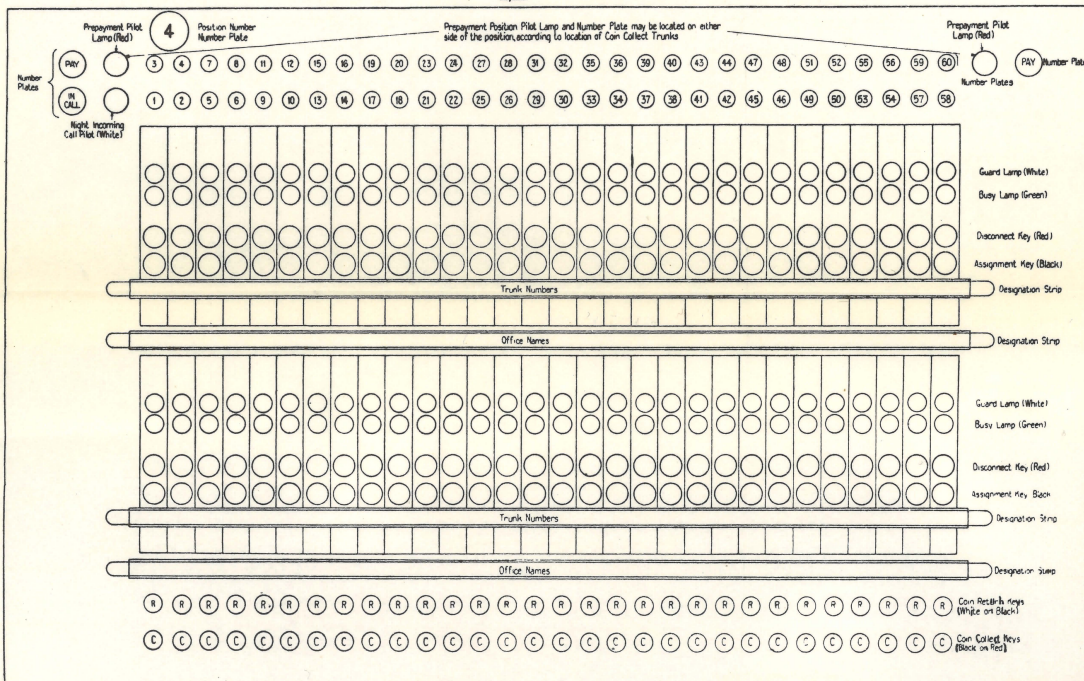
FULL MECHANICAL EQUIPMENT
ARRANGEMENT OF CORDLESS 'B' OPERATOR'S KEYSHELF

139-A-83
Oct. 25, 1935

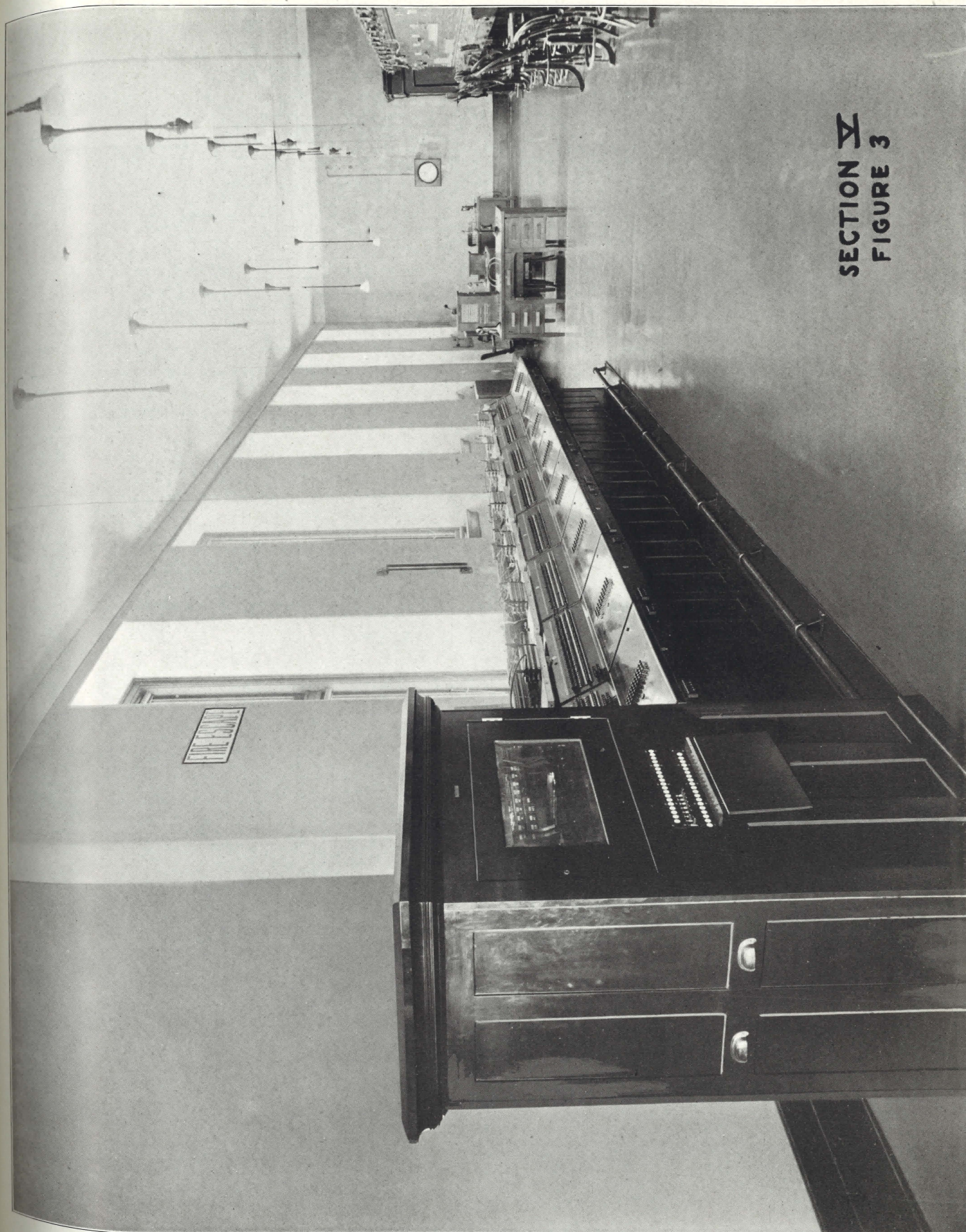
Top of Section

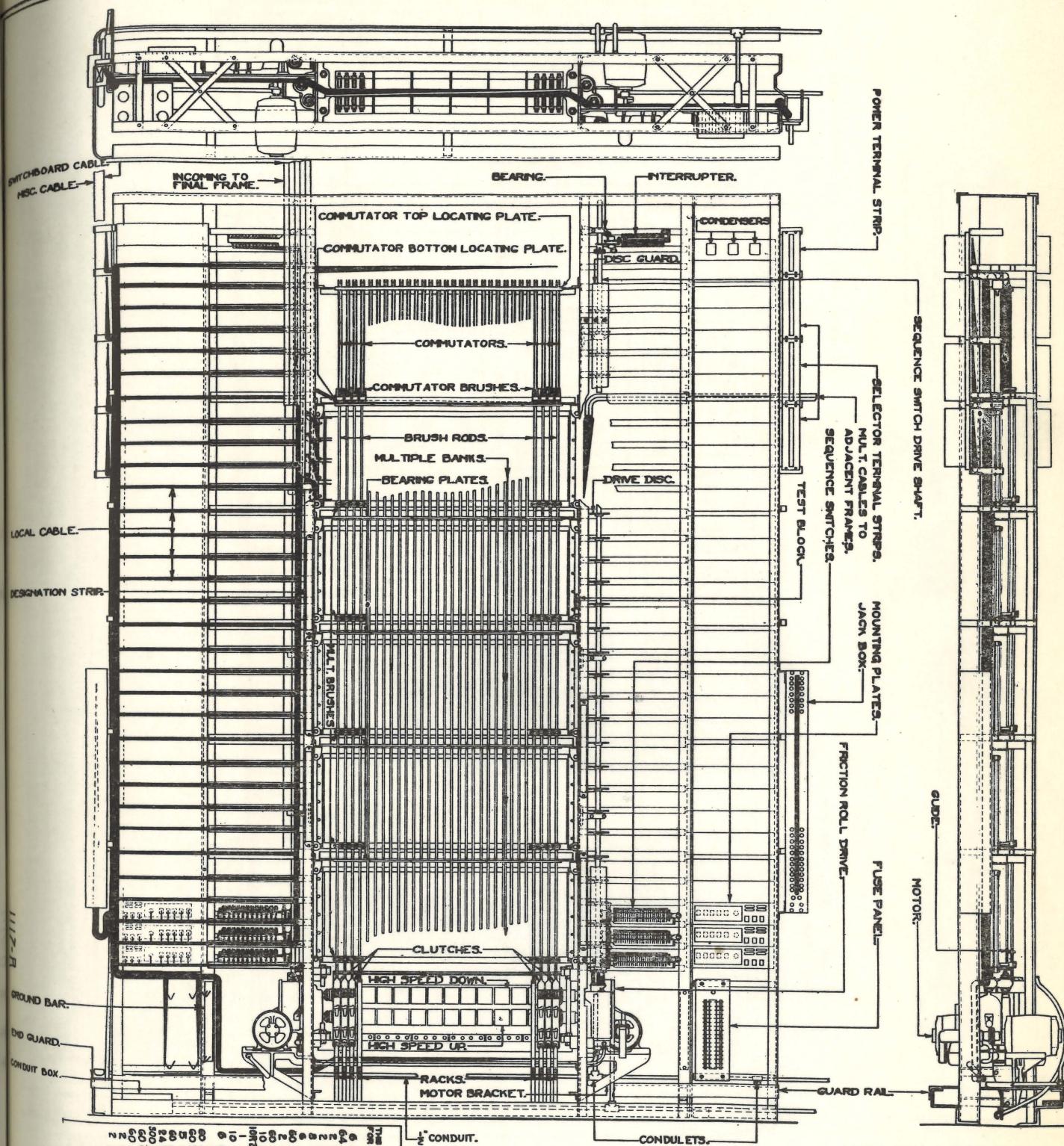


Keysheft



SECTION V
FIGURE 3



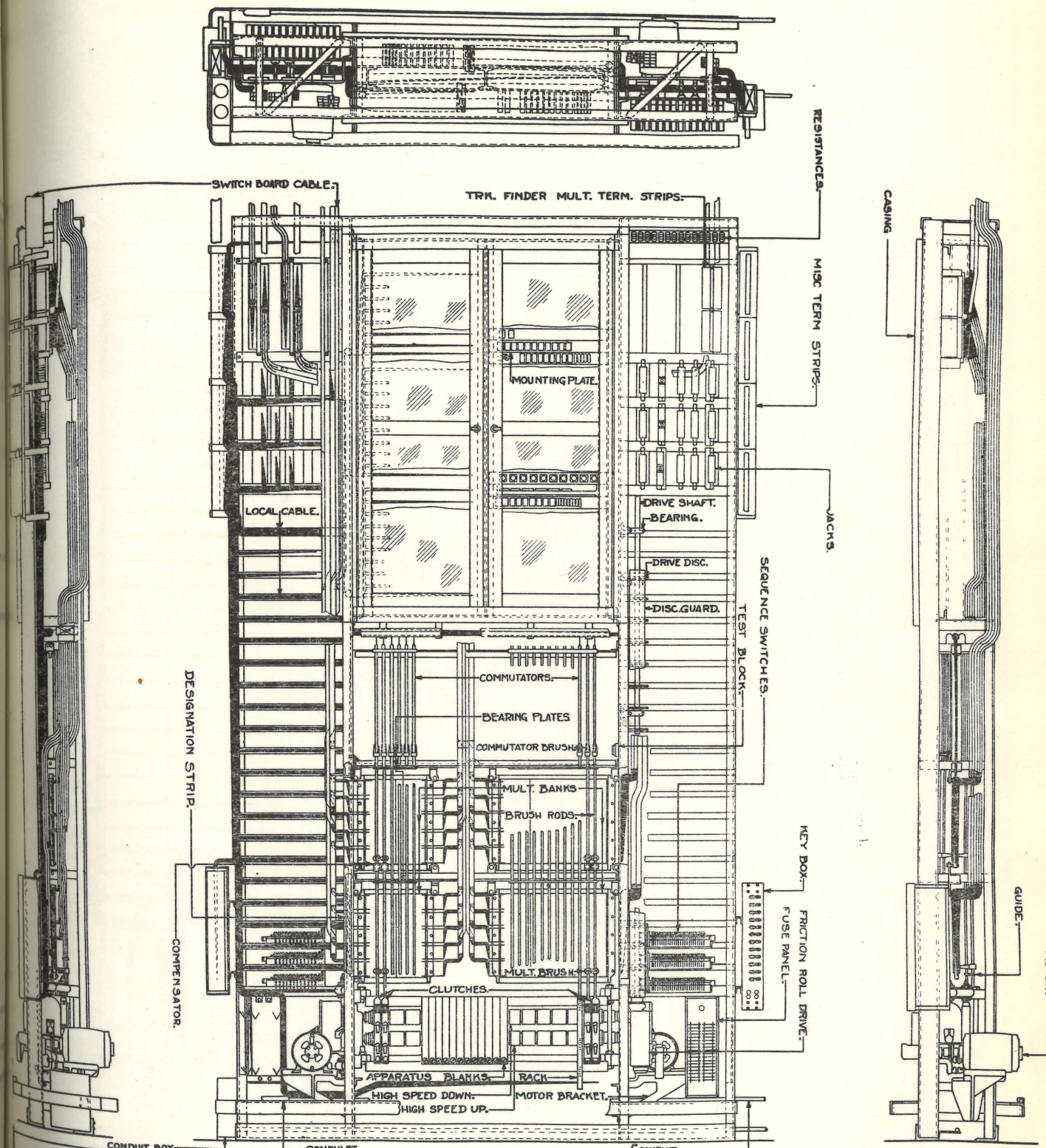


SECTION V
FIG 4

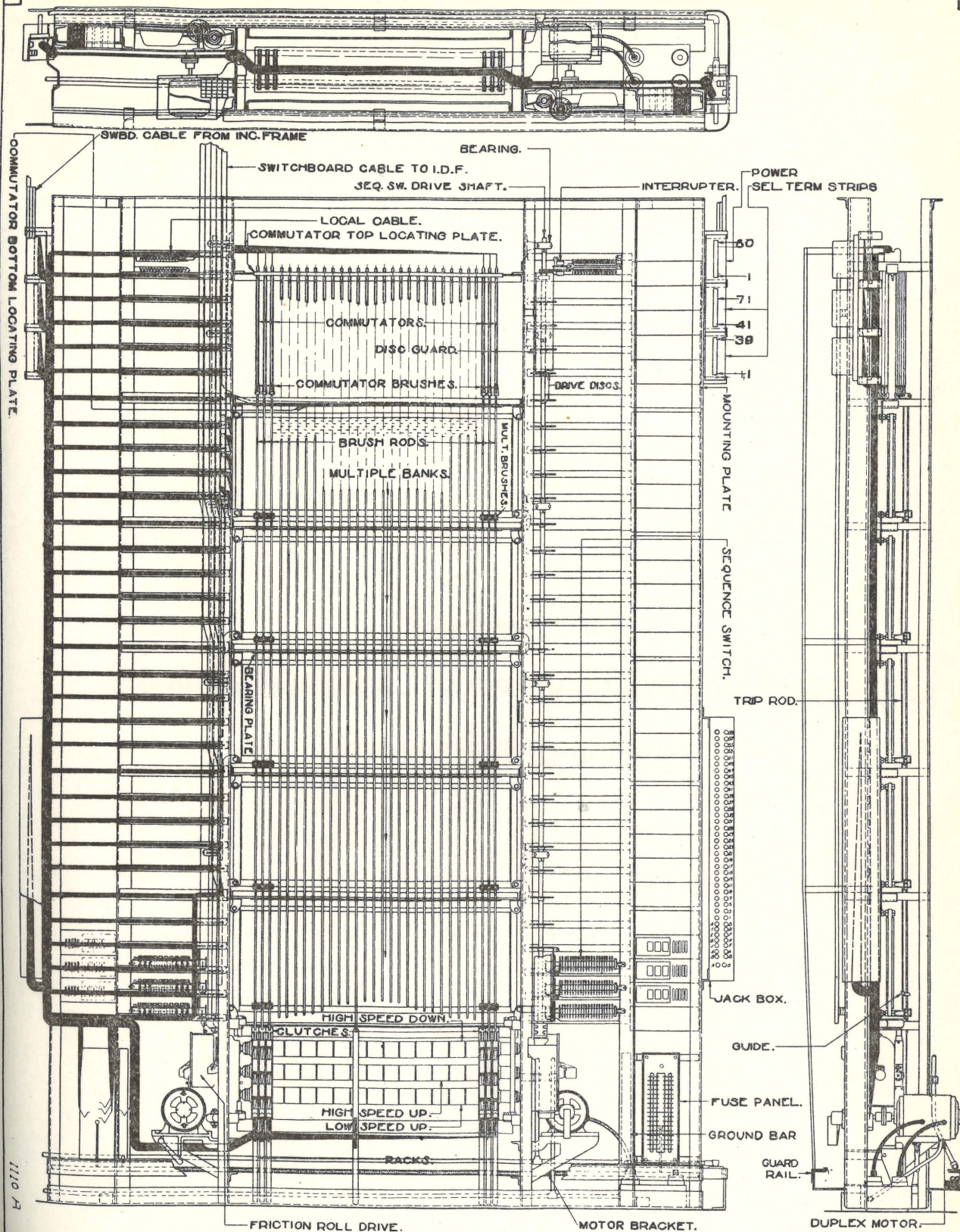
THIS DRAWING IS ASSUMED
TO BE OPERATING AS SHOWN
UNLESS OTHERWISE NOTED.

- 1. CONDENSERS.
- 2. HOLDING PLATES.
- 3. JACK BOXES.
- 4. TERMINAL STRIPS.
- 5. INTERRUPTERS.
- 6. SEQUENCE SWITCHES.
- 7. DISC GUARD.
- 8. BEARING PLATES.
- 9. BEARING RODS.
- 10. BEARING PLATES.
- 11. BEARING RODS.
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- 93. BEARING RODS.
- 94. BEARING PLATES.
- 95. BEARING RODS.
- 96. BEARING PLATES.
- 97. BEARING RODS.
- 98. BEARING PLATES.
- 99. BEARING RODS.
- 100. BEARING PLATES.

INFORMATION DRAWING	
INCOMING SEL. FRAME	
FULL MECHANICAL	
POWER DRIVEN SYSTEM	
Drawn by	Checked by
Approved by	Engineer
ES-225170	



- CONDUIT BOX.
- CONDUIT.
- THIS FRAME IS ARRANGED FOR THE FOLLOWING:
- 1. APPARATUS.
 - 2. FUSE PANELS.
 - 3. KEY BOXES.
 - 4. TERM. STRIPS.
 - 5. SEQUENCE SWITCHES.
 - 6. SER. SW. DRIVE SHAFTS.
 - 7. DRIVE DISC.
 - 8. MOTOR BRACKET.
 - 9. FRICTION ROLL DRIVE.
 - 10. DESIGNATION STRIP.
 - 11. BEARING PLATES.
 - 12. COMMUTATOR BRUSHES.
 - 13. MULT. BANKS.
 - 14. BRUSH RODS.
 - 15. MULT. BRUSHES.
 - 16. CLUTCHES.
 - 17. APPARATUS BLANKS.
 - 18. HIGH SPEED DOWN.
 - 19. HIGH SPEED UP.
 - 20. MOTOR BRACKET.
 - 21. CONDUIT.
 - 22. CONDUIT BOX.
 - 23. APPARATUS BLANKS.
 - 24. FUSE PANELS.
 - 25. KEY BOXES.
 - 26. TERM. STRIPS.
 - 27. SEQUENCE SWITCHES.
 - 28. SER. SW. DRIVE SHAFTS.
 - 29. DRIVE DISC.
 - 30. MOTOR BRACKET.
 - 31. FRICTION ROLL DRIVE.
 - 32. DESIGNATION STRIP.
 - 33. BEARING PLATES.
 - 34. COMMUTATOR BRUSHES.
 - 35. MULT. BANKS.
 - 36. BRUSH RODS.
 - 37. MULT. BRUSHES.
 - 38. CLUTCHES.
 - 39. APPARATUS BLANKS.
 - 40. HIGH SPEED DOWN.
 - 41. HIGH SPEED UP.
 - 42. MOTOR BRACKET.
 - 43. CONDUIT.
 - 44. CONDUIT BOX.
 - 45. APPARATUS BLANKS.
 - 46. FUSE PANELS.
 - 47. KEY BOXES.
 - 48. TERM. STRIPS.
 - 49. SEQUENCE SWITCHES.
 - 50. SER. SW. DRIVE SHAFTS.
 - 51. DRIVE DISC.
 - 52. MOTOR BRACKET.
 - 53. FRICTION ROLL DRIVE.
 - 54. DESIGNATION STRIP.
 - 55. BEARING PLATES.
 - 56. COMMUTATOR BRUSHES.
 - 57. MULT. BANKS.
 - 58. BRUSH RODS.
 - 59. MULT. BRUSHES.
 - 60. CLUTCHES.
 - 61. APPARATUS BLANKS.
 - 62. HIGH SPEED DOWN.
 - 63. HIGH SPEED UP.
 - 64. MOTOR BRACKET.
 - 65. CONDUIT.
 - 66. CONDUIT BOX.
 - 67. APPARATUS BLANKS.
 - 68. FUSE PANELS.
 - 69. KEY BOXES.
 - 70. TERM. STRIPS.
 - 71. SEQUENCE SWITCHES.
 - 72. SER. SW. DRIVE SHAFTS.
 - 73. DRIVE DISC.
 - 74. MOTOR BRACKET.
 - 75. FRICTION ROLL DRIVE.
 - 76. DESIGNATION STRIP.
 - 77. BEARING PLATES.
 - 78. COMMUTATOR BRUSHES.
 - 79. MULT. BANKS.
 - 80. BRUSH RODS.
 - 81. MULT. BRUSHES.
 - 82. CLUTCHES.
 - 83. APPARATUS BLANKS.
 - 84. HIGH SPEED DOWN.
 - 85. HIGH SPEED UP.
 - 86. MOTOR BRACKET.
 - 87. CONDUIT.
 - 88. CONDUIT BOX.
 - 89. APPARATUS BLANKS.
 - 90. FUSE PANELS.
 - 91. KEY BOXES.
 - 92. TERM. STRIPS.
 - 93. SEQUENCE SWITCHES.
 - 94. SER. SW. DRIVE SHAFTS.
 - 95. DRIVE DISC.
 - 96. MOTOR BRACKET.
 - 97. FRICTION ROLL DRIVE.
 - 98. DESIGNATION STRIP.
 - 99. BEARING PLATES.
 - 100. COMMUTATOR BRUSHES.
 - 101. MULT. BANKS.
 - 102. BRUSH RODS.
 - 103. MULT. BRUSHES.
 - 104. CLUTCHES.
 - 105. APPARATUS BLANKS.
 - 106. HIGH SPEED DOWN.
 - 107. HIGH SPEED UP.
 - 108. MOTOR BRACKET.
 - 109. CONDUIT.
 - 110. CONDUIT BOX.
 - 111. APPARATUS BLANKS.
 - 112. FUSE PANELS.
 - 113. KEY BOXES.
 - 114. TERM. STRIPS.
 - 115. SEQUENCE SWITCHES.
 - 116. SER. SW. DRIVE SHAFTS.
 - 117. DRIVE DISC.
 - 118. MOTOR BRACKET.
 - 119. FRICTION ROLL DRIVE.
 - 120. DESIGNATION STRIP.
 - 121. BEARING PLATES.
 - 122. COMMUTATOR BRUSHES.
 - 123. MULT. BANKS.
 - 124. BRUSH RODS.
 - 125. MULT. BRUSHES.
 - 126. CLUTCHES.
 - 127. APPARATUS BLANKS.
 - 128. HIGH SPEED DOWN.
 - 129. HIGH SPEED UP.
 - 130. MOTOR BRACKET.
 - 131. CONDUIT.
 - 132. CONDUIT BOX.
 - 133. APPARATUS BLANKS.
 - 134. FUSE PANELS.
 - 135. KEY BOXES.
 - 136. TERM. STRIPS.
 - 137. SEQUENCE SWITCHES.
 - 138. SER. SW. DRIVE SHAFTS.
 - 139. DRIVE DISC.
 - 140. MOTOR BRACKET.
 - 141. FRICTION ROLL DRIVE.
 - 142. DESIGNATION STRIP.
 - 143. BEARING PLATES.
 - 144. COMMUTATOR BRUSHES.
 - 145. MULT. BANKS.
 - 146. BRUSH RODS.
 - 147. MULT. BRUSHES.
 - 148. CLUTCHES.
 - 149. APPARATUS BLANKS.
 - 150. HIGH SPEED DOWN.
 - 151. HIGH SPEED UP.
 - 152. MOTOR BRACKET.
 - 153. CONDUIT.
 - 154. CONDUIT BOX.
 - 155. APPARATUS BLANKS.
 - 156. FUSE PANELS.
 - 157. KEY BOXES.
 - 158. TERM. STRIPS.
 - 159. SEQUENCE SWITCHES.
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 - 831. APPARATUS BLANKS.
 - 832. HIGH SPEED DOWN.
 - 833. HIGH SPEED UP.
 - 834. MOTOR BRACKET.
 - 835. CONDUIT.
 - 836. CONDUIT BOX.
 - 837. APPARATUS BLANKS.
 - 838. FUSE PANELS.
 - 839. KEY BOXES.
 - 840. TERM. STRIPS.
 - 841. SEQUENCE SWITCHES.
 - 842. SER. SW. DRIVE SHAFTS.
 - 843. DRIVE DISC.
 - 844. MOTOR BRACKET.
 - 845. FRICTION ROLL DRIVE.
 - 846. DESIGNATION STRIP.
 - 847. BEARING PLATES.
 - 848. COMMUTATOR BRUSHES.
 - 849. MULT. BANKS.
 - 850. BRUSH RODS.
 - 851. MULT. BRUSHES.
 - 852. CLUTCHES.
 - 853. APPARATUS BLANKS.
 - 854. HIGH SPEED DOWN.
 - 855. HIGH SPEED UP.
 - 856. MOTOR BRACKET.
 - 857. CONDUIT.
 - 858. CONDUIT BOX.</



SECTION II
FIG 6

THIS FRAME IS
ARRANGED FOR
AS LISTED BELOW.
1. FRICTION ROLL
DRIVE
2. DRIVE SHAFT
3. MOTOR BRACKET
4. SWITCHBOARD
5. SEQUENCE SWITCH
6. COMM. BRUSHES
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100. MULT. BRUSHES

INFORMATION DRAWING
FINAL SELECTOR FRAME
FULL MECHANICAL
POWER DRIVEN SYSTEM

CS-22363

Section VI

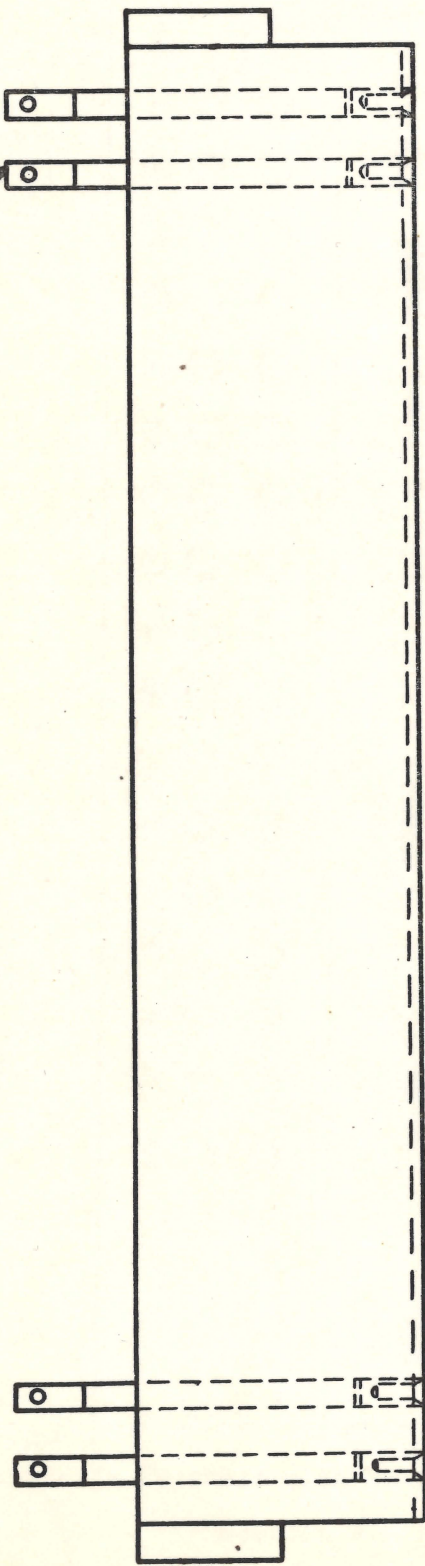
Machine Switching "A" Switchboard and Associated Frames and Equipment

T-430 221
U

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	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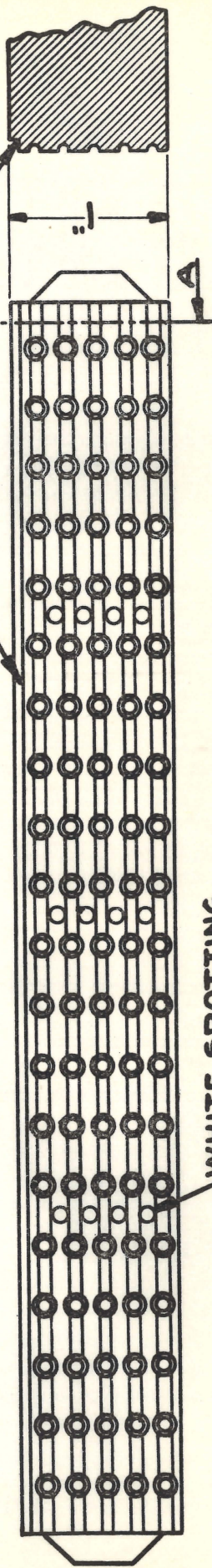
TEST STRIP FOR CHECKING MULTIPLE
MACHINE SWITCHING "A" SWITCHBOARD
FULL MECHANICAL POWER DRIVEN SYSTEM

SOLDERING TERMINALS



FILLED WHITE

A

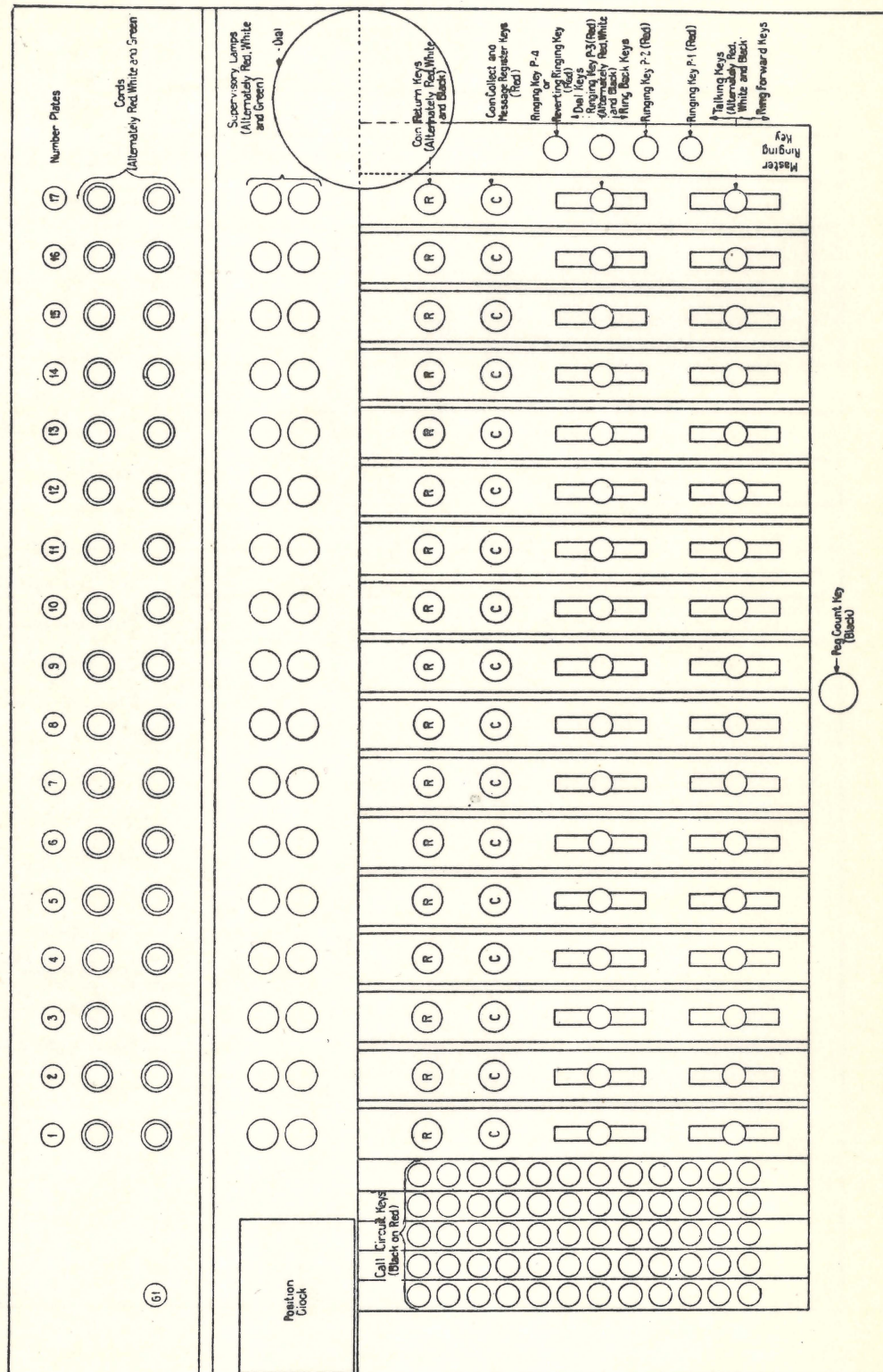


WHITE SPOTTING

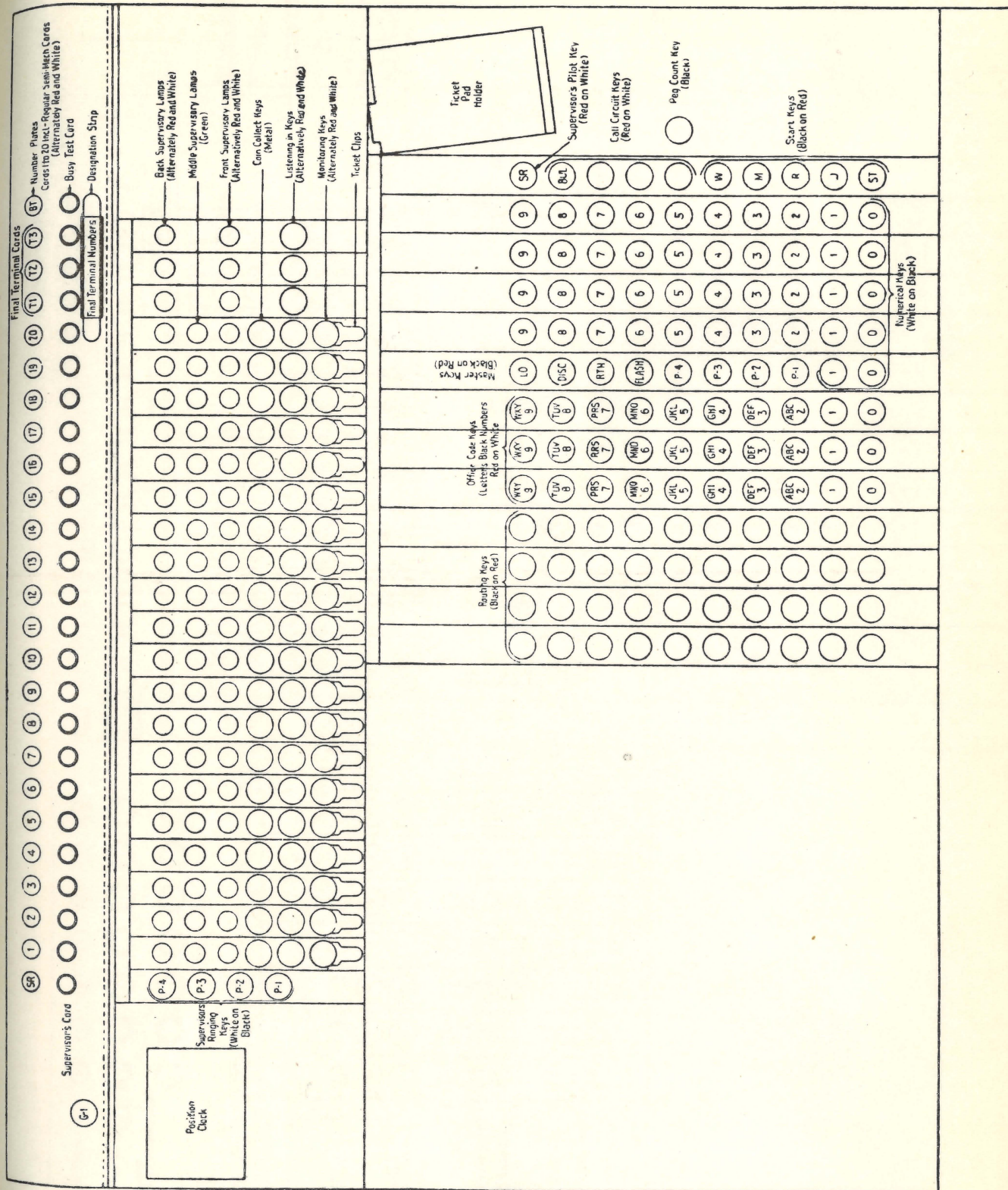
PARTIAL
SECTION "A-A"

SCALE FULL SIZE

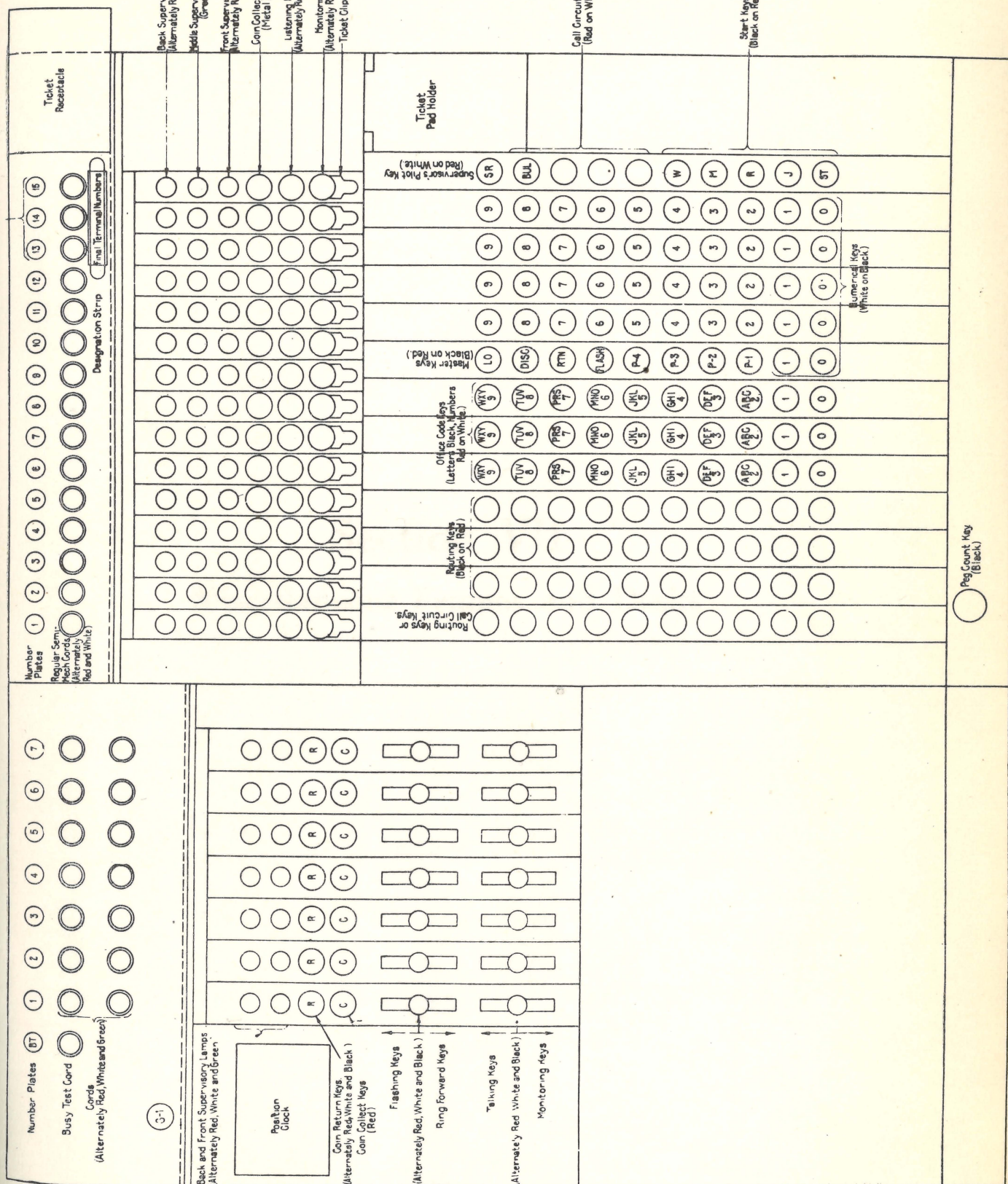
SEC.VI FIG.3
TEST STRIP FOR CHECKING MULTIPLE
MACHINE SWITCHING "A" SWITCHBOARD



"A" operator's Keyshelf with Manual Cords, Dial, and Dialing Keys.



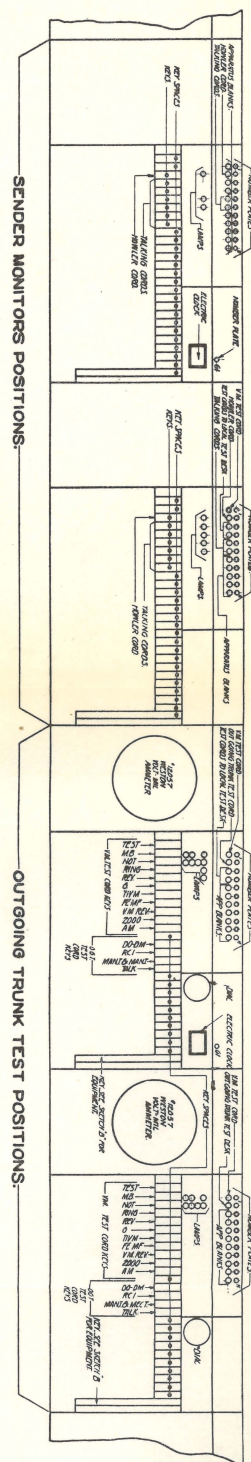
A Operator's Keyshelf with Semi-mechanical Keyset



A Operator's Combination Manual and Semi-mechanical Keyshelf

Section VII

Miscellaneous Frames and Desks



APPARATUS.

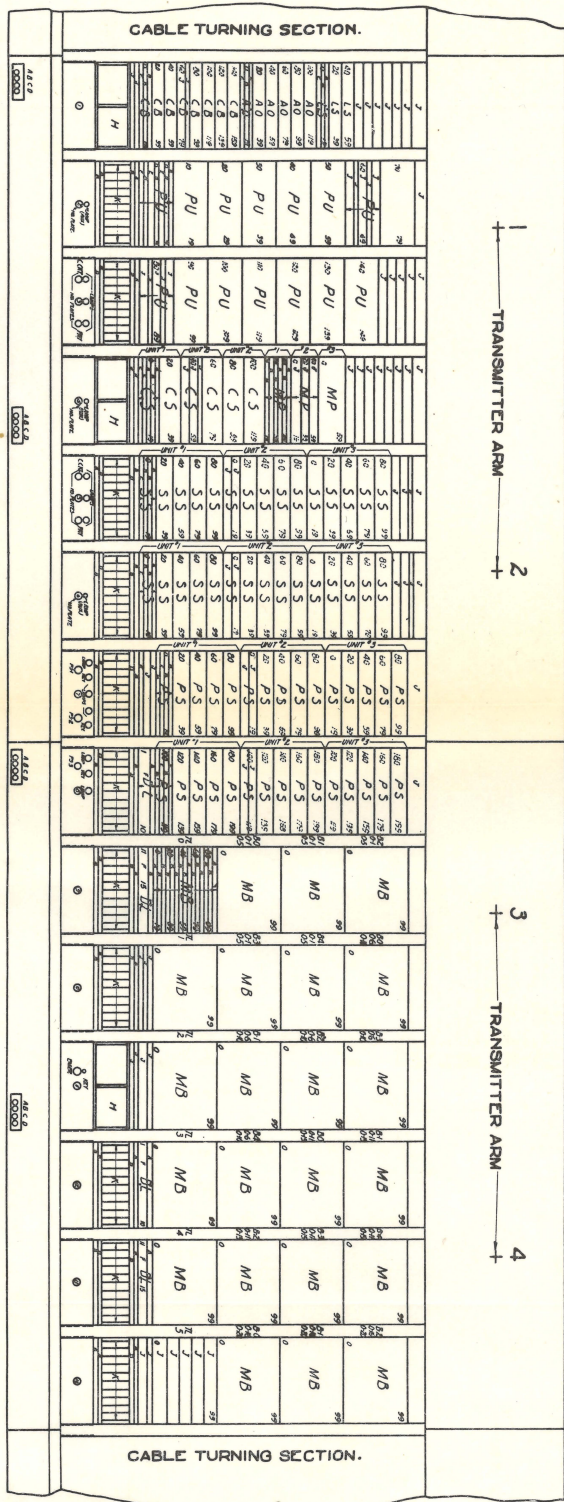
- A-1X SEWING MACHINE
B-JACKS 20 PER STRIP
C-LAMPS 10 PER STRIP
D-LAMPS 10 PER STRIP
E-JACKS 10 PER STRIP
F-JACKS 10 PER STRIP
G-JACKS 20 PER STRIP
H-PRICE ON BILLS
I-JACKS 10 PER STRIP
J-JACKS 10 PER STRIP
K-JACKS 10 PER STRIP
L-JACKS 10 PER STRIP
M-JACKS 10 PER STRIP
N-JACKS 10 PER STRIP
O-JACKS 10 PER STRIP
P-JACKS 10 PER STRIP
Q-JACKS 10 PER STRIP
R-JACKS 10 PER STRIP
S-JACKS 10 PER STRIP
T-JACKS 10 PER STRIP
U-JACKS 10 PER STRIP
V-JACKS 10 PER STRIP
W-JACKS 10 PER STRIP
X-JACKS 10 PER STRIP
Y-JACKS 10 PER STRIP
Z-JACKS 10 PER STRIP

CIRCUITS:

- [illegible]

NOTES

1. BUILT-IN PRODUCTIVITY IMPROVING CIRCUITS
2. SOLID NUMBERING SYSTEMS FOR WIRING AND EQUIPMENT
3. ONE LETTERS IDENTIFY THE EQUIPMENT

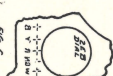
SECTION VII
FIG. 1

INFORMATION DRAWING
FRONT EQUIPMENT.
TROUBLE DESK.
FULL MECHANICAL
POWER DRIVEN SYSTEM.

APPROVED	DATE	BY
<i>[Signature]</i>	12/1/58	W. J. H. S.
WESTERN ELECTRIC CO. INC. N.Y. DIST. OFF.		

The diagram illustrates a complex electronic circuit, possibly a multi-band radio receiver or a specialized amplifier. Key features include:

- Power Supply Section (Top):** Labeled "POWER SUPPLY AND BIASING UNIT". It contains a transformer with multiple taps connected to various parts of the circuit.
- Vacuum Tubes:** Numerous tubes are identified, including 6X4, 6AR5, 6AV6, 6BE6, 6BD6, 6BE7, 6BE8, 6BE9, 6BE10, 6BE11, 6BE12, 6BE13, 6BE14, 6BE15, 6BE16, 6BE17, 6BE18, 6BE19, 6BE20, 6BE21, 6BE22, 6BE23, 6BE24, 6BE25, 6BE26, 6BE27, 6BE28, 6BE29, 6BE30, 6BE31, 6BE32, 6BE33, 6BE34, 6BE35, 6BE36, 6BE37, 6BE38, 6BE39, 6BE40, 6BE41, 6BE42, 6BE43, 6BE44, 6BE45, 6BE46, 6BE47, 6BE48, 6BE49, 6BE50, 6BE51, 6BE52, 6BE53, 6BE54, 6BE55, 6BE56, 6BE57, 6BE58, 6BE59, 6BE60, 6BE61, 6BE62, 6BE63, 6BE64, 6BE65, 6BE66, 6BE67, 6BE68, 6BE69, 6BE70, 6BE71, 6BE72, 6BE73, 6BE74, 6BE75, 6BE76, 6BE77, 6BE78, 6BE79, 6BE80, 6BE81, 6BE82, 6BE83, 6BE84, 6BE85, 6BE86, 6BE87, 6BE88, 6BE89, 6BE90, 6BE91, 6BE92, 6BE93, 6BE94, 6BE95, 6BE96, 6BE97, 6BE98, 6BE99, 6BE100.
- Signal Processing Stages:** The central part of the diagram shows a series of interconnected stages, likely representing different frequency bands or signal paths.
- Output Section (Right):** Includes a section labeled "SPEAKER OUTPUT" which drives a speaker through a transformer.
- Biasing and Tuning Controls:** Various controls are shown, such as "TUNING CONTROL", "BAND SELECTOR", and "VOLUME CONTROL".
- Component Labels:** Numerous resistors and capacitors are labeled with values like "10K", "100K", "1M", "100P", "10N", etc.

[illegible][illegible][illegible]

INFORMATION AT THE MANUFACTURING OFFICE.

SECTION VII

FIG. 2

PANEL & KEYSHELF

EQUIPMENT

LOCAL TEST DESK

PULL MECHANICAL POWER DRIVEN SYSTEM

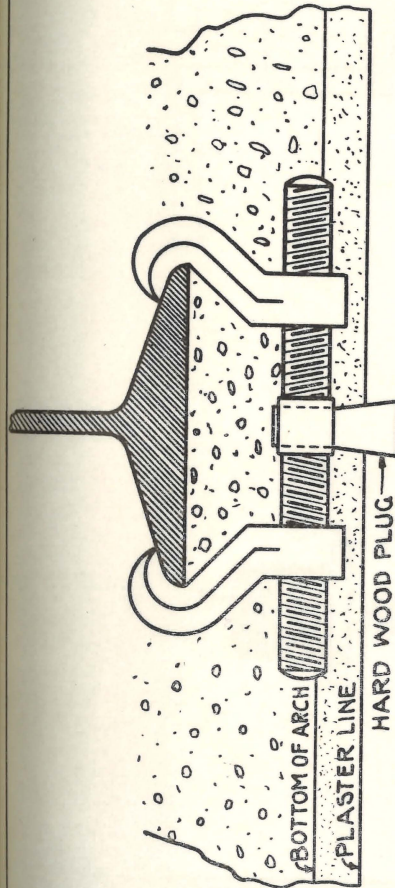
APPROVED DATE 12-11-50 	DRAWN BY M.T.G. CHECKED BY J.M.M. DATE 12-1-50
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F500106

Section VIII

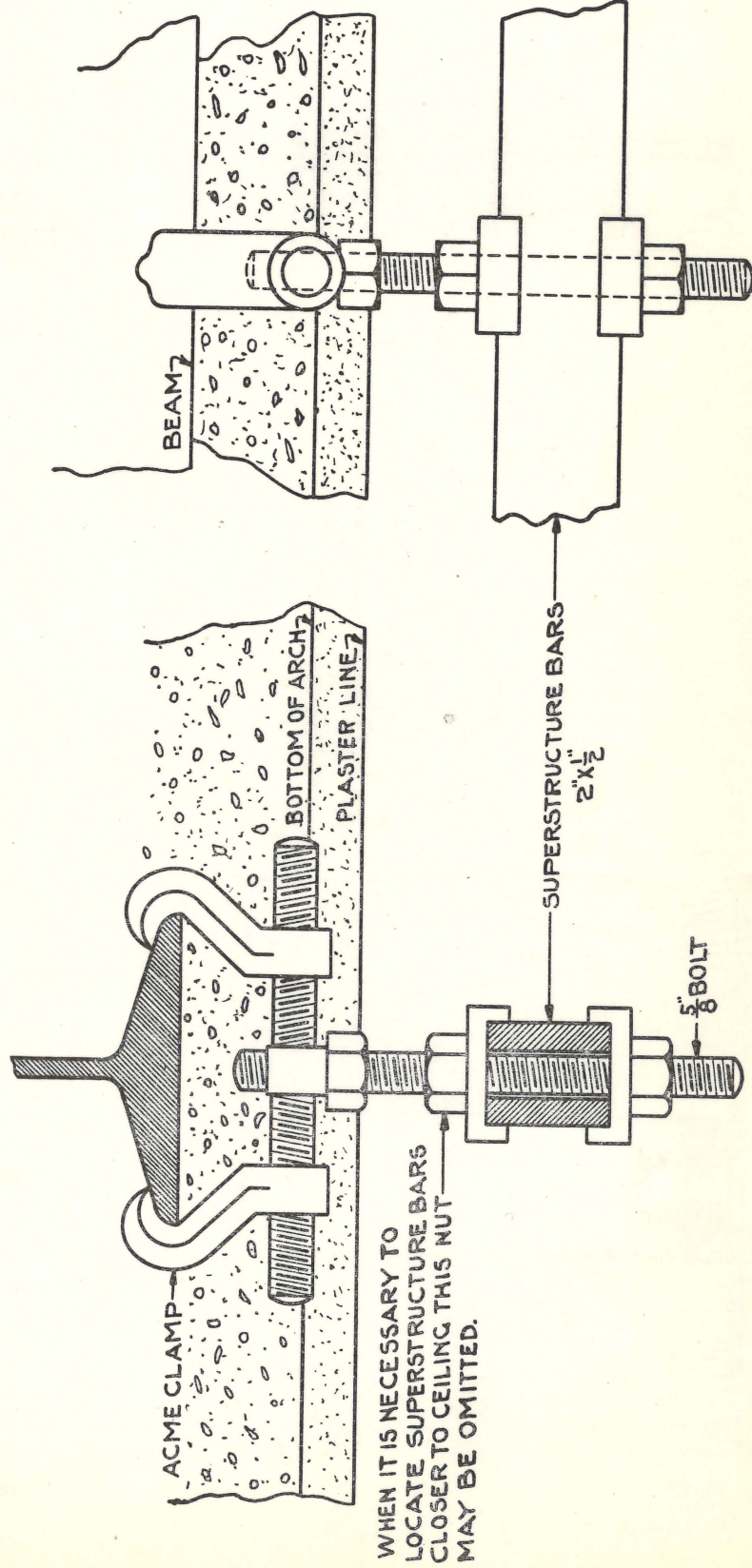
Building and Floor Plan Layouts

INFORMATION DRAWING
SUPPORT OF SUPERSTRUCTURE
BY MEANS OF ACME BEAM CLAMPS
IN TELEPHONE BUILDINGS OF
STEEL CONSTRUCTION



SKETCH - 1
ACME BEAM CLAMP

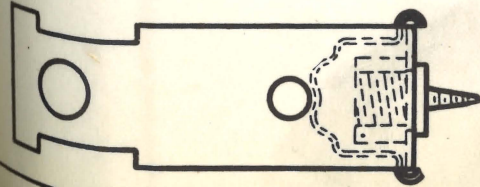
HARD WOOD PLUG TO FILL
THREADED HOLE IN CLAMP BOLT
DURING PLASTERING OPERATION
AND TO INDICATE POSITION
OF CLAMP IN FINISHED CEILING.



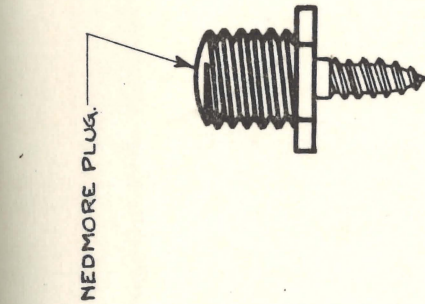
WHEN IT IS NECESSARY TO
LOCATE SUPERSTRUCTURE BARS
CLOSER TO CEILING THIS NUT
MAY BE OMITTED.

SKETCH - 2

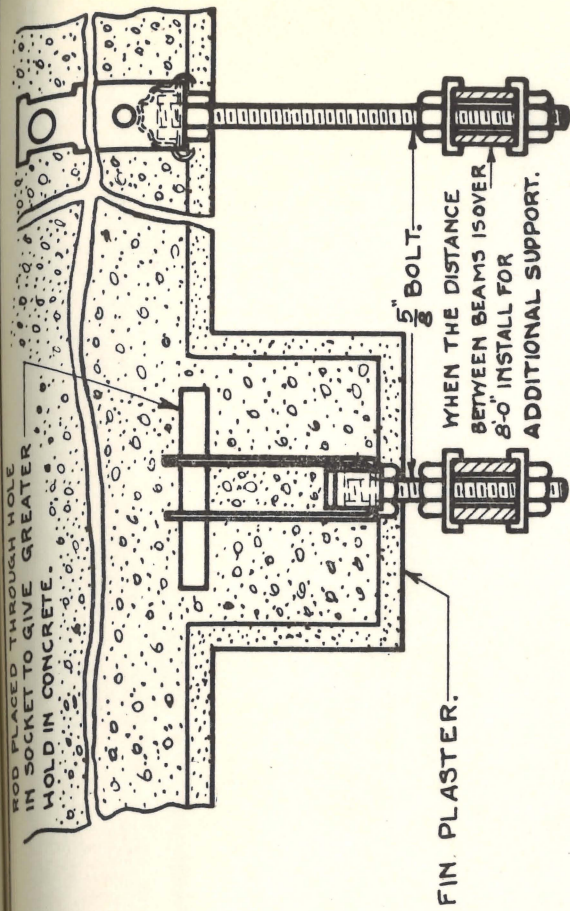
METHOD OF SUPPORTING SUPERSTRUCTURE BARS FROM ACME BEAM CLAMPS



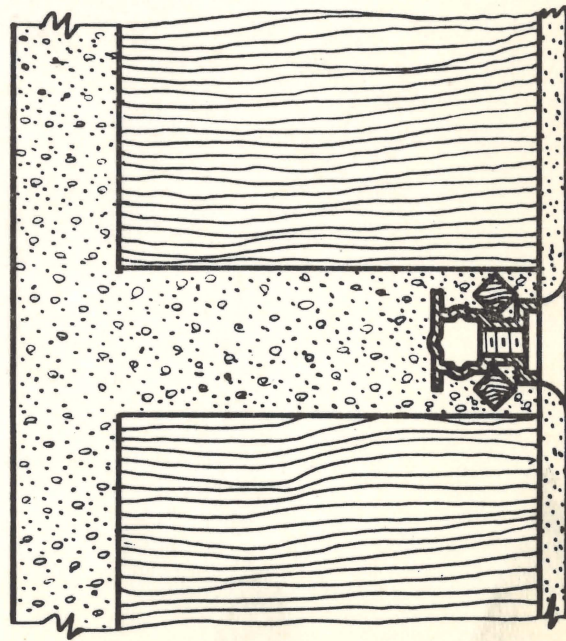
SKETCH 1.
KNEAS SOCKET.



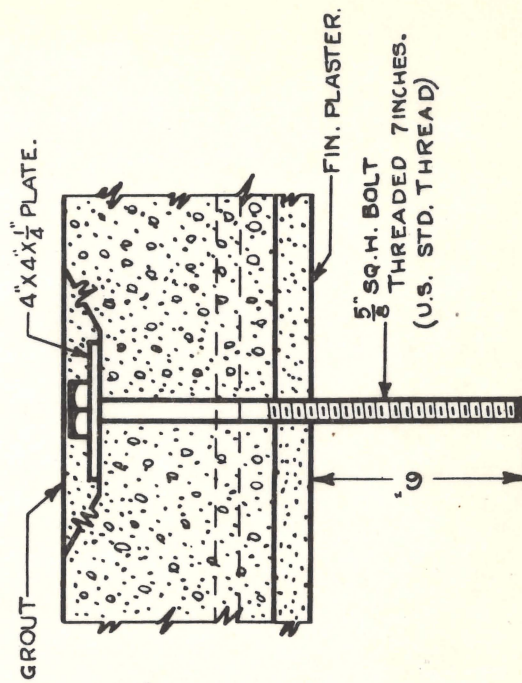
NEDMORE PLUG.



SKETCH 2.
METHOD OF SUPPORTING SUPERSTRUCTURE BARS FROM KNEAS SOCKET.

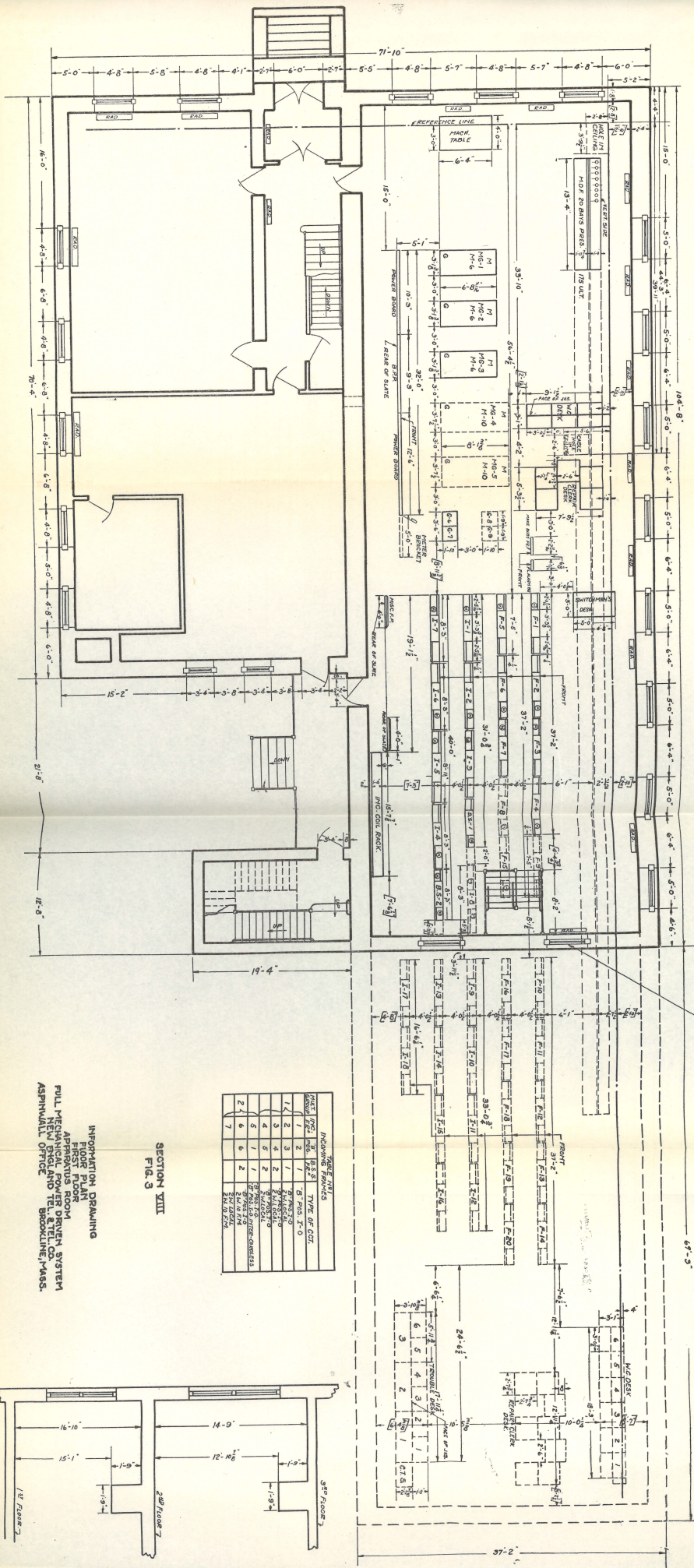


SKETCH 3.
USE OF SPECIAL INSERT PLACED TO TAKE ADVANTAGE OF REINFORCEMENT RODS.



SKETCH 4.
METHOD OF PROVIDING SUPPORT IN CONCRETE CEILINGS FOR SUPERSTRUCTURE WHEN INSERTS WERE NOT ORIGINALLY PROVIDED FOR. FIG. 2.

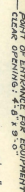
INFORMATION DRAWING.
SUPPORT OF SUPERSTRUCTURE BY MEANS OF KNEAS SOCKETS IN TELEPHONE BUILDINGS OF REINFORCED CONCRETE CONSTRUCTION.



POINT OF ENTRANCE FOR EQUIPMENT
CLEAN OPENING 3'-0" x 3'-0"

6'-3"

NOTES
ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED
AND SHALL NOT BE USED BY THE INSTALLER IN
LOCATING APPARATUS
LOCATING APPARATUS SHALL BE IN PLACE AFTER
THE FINISH INSIDE OF CABLE HOLE SHEETING
ACTUAL SIZE OF CABLE HOLE TO BE 1/8" GREATER
DESIGNATES DRIVE WORK

SECTION VIII
FIG. 4

INFORMATION DRAWING
FLOOR PLAN
SECOND FLOOR
APPARATUS AND OPERATING ROOM
FULL MECHANICAL POWER DRIVEN SYSTEM
NEW ENGLAND TEL & TEL.CO.
ASPINWALL OFFICE
BROOKLINE, MASS

NOTES

ALL DIMENSIONS IN SPARKED L ARE APPROXIMATE AND SHALL NOT BE USED BY THE INSTALLER IN LOCATING APPARATUS

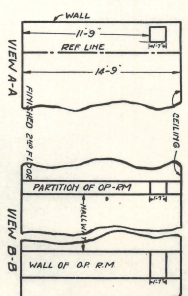
ALL DIMENSIONS FOR CABLE HOLES IN FLOOR ARE TO BE TAKEN INSIDE OF CABLE HOLE SHEATHING

ACTUAL SIZE OF CABLE HOLE TO BE 1" GREATER ALL AROUND

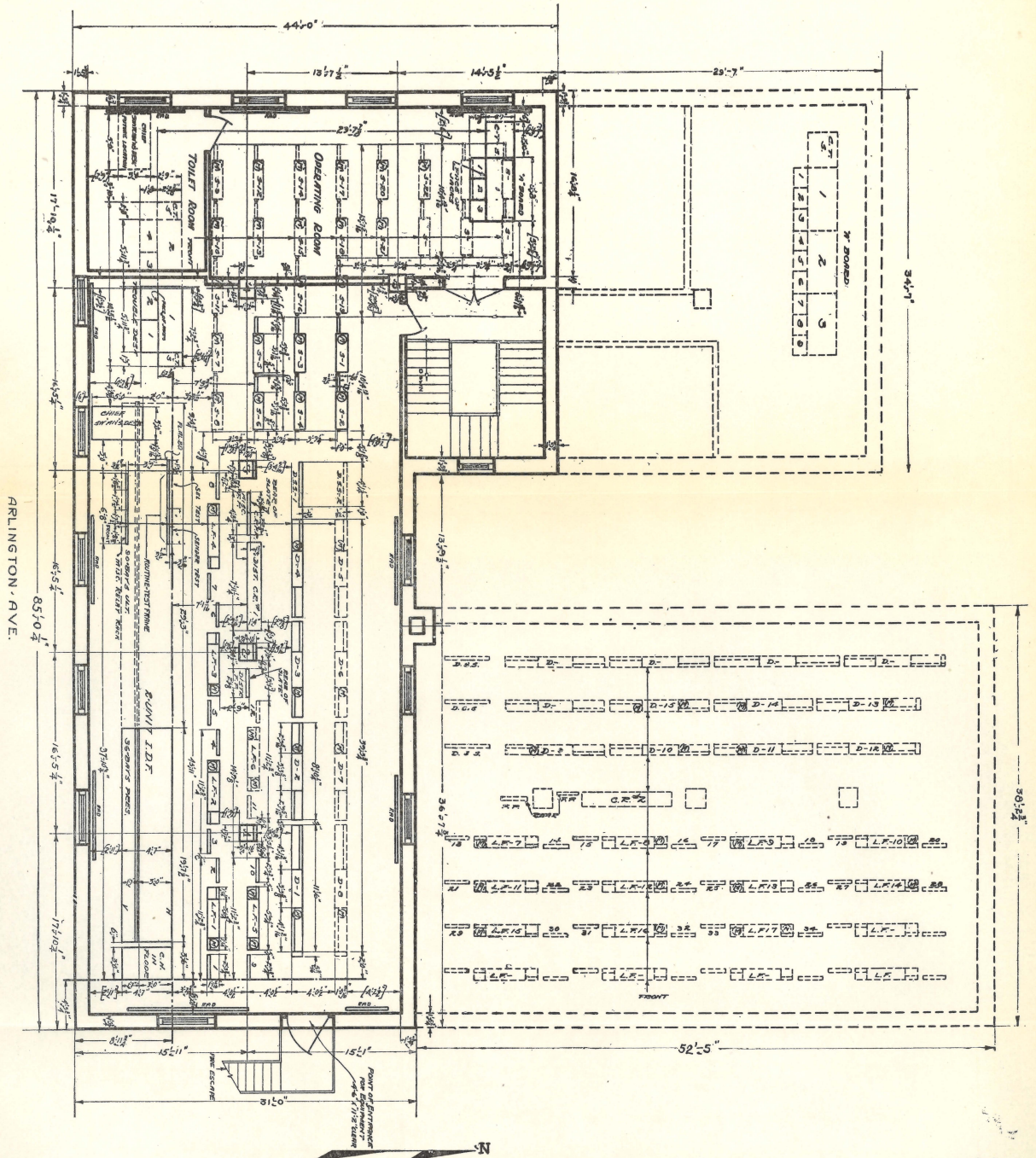
② DESIGNATES DRIVE MOTOR

TABLE #1 LINE FINDER FRAMES		
FRAME N°	GLASS OF SWIRL SELECTOR GROUPING	
1-2-3	SUB.F.R.	60
4-5	2 PACTY M.R.	28-28
6	D.F.R.	60
7	4 P.O. STATION M.R.	40-20

TABLE #2 DISTRICT FRAMES	
FRAME #	CLASS OF SERVICE
1-2-3	SUB.F.R.
4-5	2 PARTY H.R.
6	DISEASE & STA. M.R.
7-8	SEMI-MECH. A. P.R.

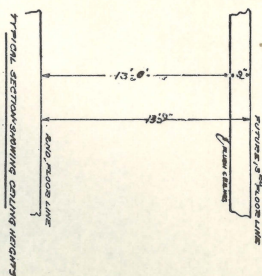


GENEVA AVE.



TOILET ROOM	
DISTRIBUTION	
TOILET NO.	CLAS. OF SERVICE
1	MALE, WHITE, BRACKET
2-3-4	MALE, WHITE, BRACKET

TOILET ROOM	
DISTRIBUTION	
TOILET NO.	CLAS. OF SERVICE
1	MALE, WHITE, BRACKET
2-3-4-5	MALE, WHITE, BRACKET

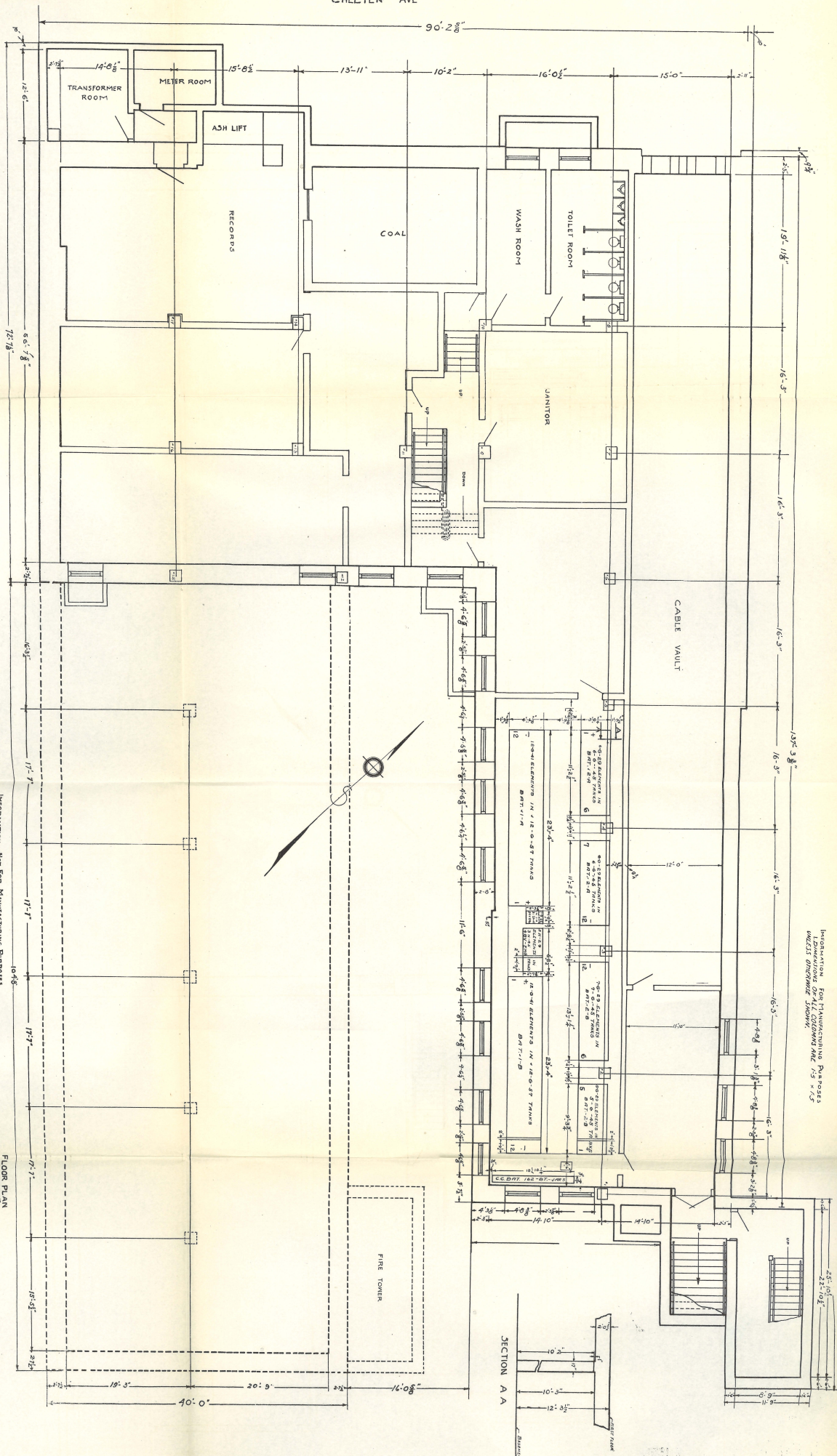


FLOOR PLAN
SECOND FLOOR
APPARATUS & OPERATING RM.
FULL MECHANICAL-POWER DRIVEN SYSTEM
CENTRAL-UNION TEL. CO.
BROADWAY OFFICE - TOLEDO, OHIO
SCALE 1/8" = 1'-0"

SECTION XIII

FIGURE 6

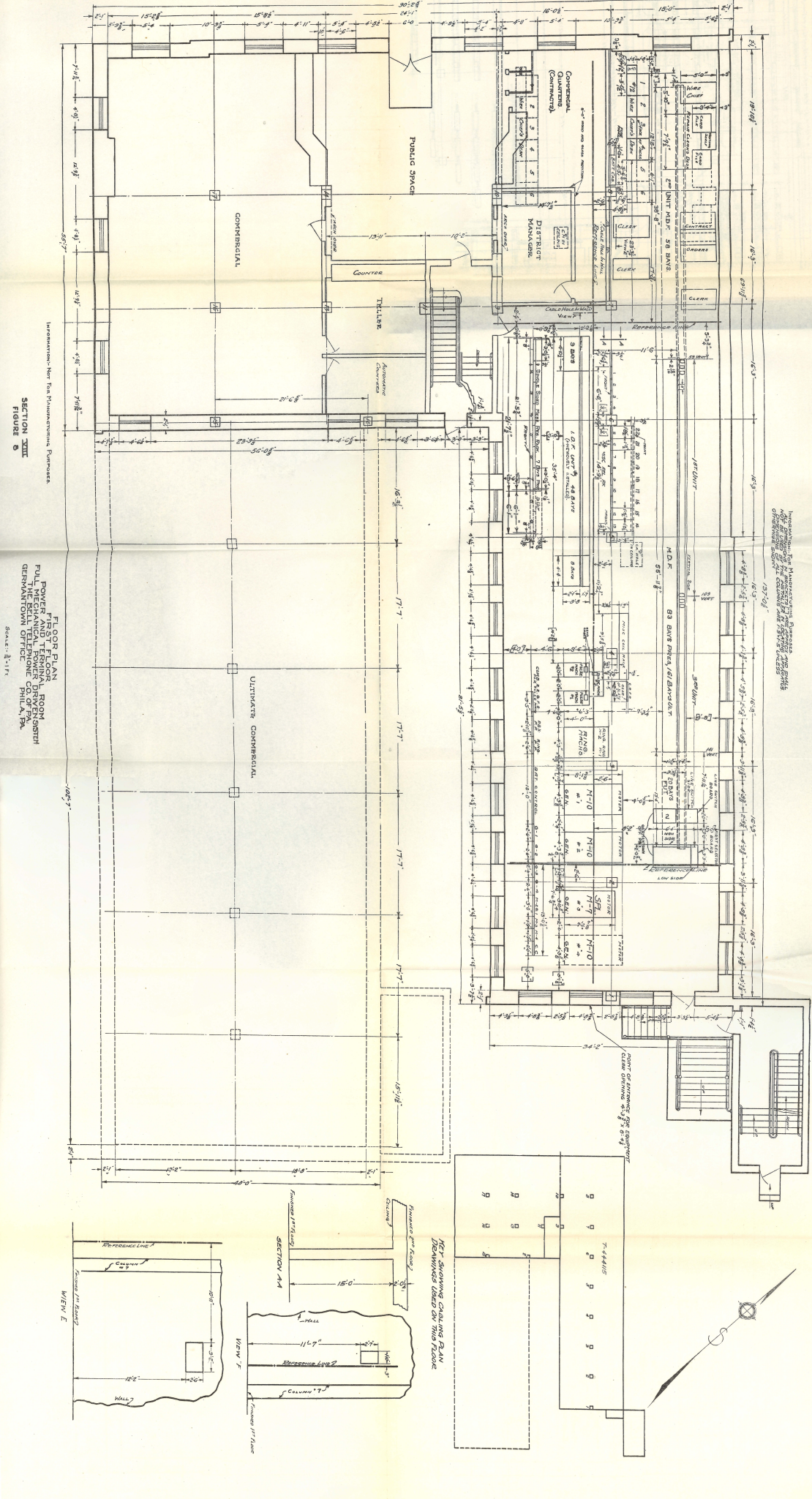
INFORMATION FOR MFG. PURPOSES:-
1. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
2. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
3. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
4. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
5. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
6. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
7. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
8. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
9. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.
10. ALL DIMENSIONS TO BE SHOWN IN LOCATIONS SHOWN.



SECTION XIII
FIGURE 7

FLOOR PLAN
BATTERY ROOM
PULL MECHANICAL SYSTEM
THE BELL TELEPHONE CO. OF PA.
GERMANTOWN OFFICE
PHILA. PA.

INDICATION FOR MANUFACTURING PURPOSES
DIMENSIONS OF ALL COMPONENTS ARE 1/8" X 1/8"
UNLESS OTHERWISE NOTED



NOT SHOWN CEILING PLAN
 DIMENSIONS BASED ON THIS FLOOR

SECTION A-A

VIEW 7

VIEW E

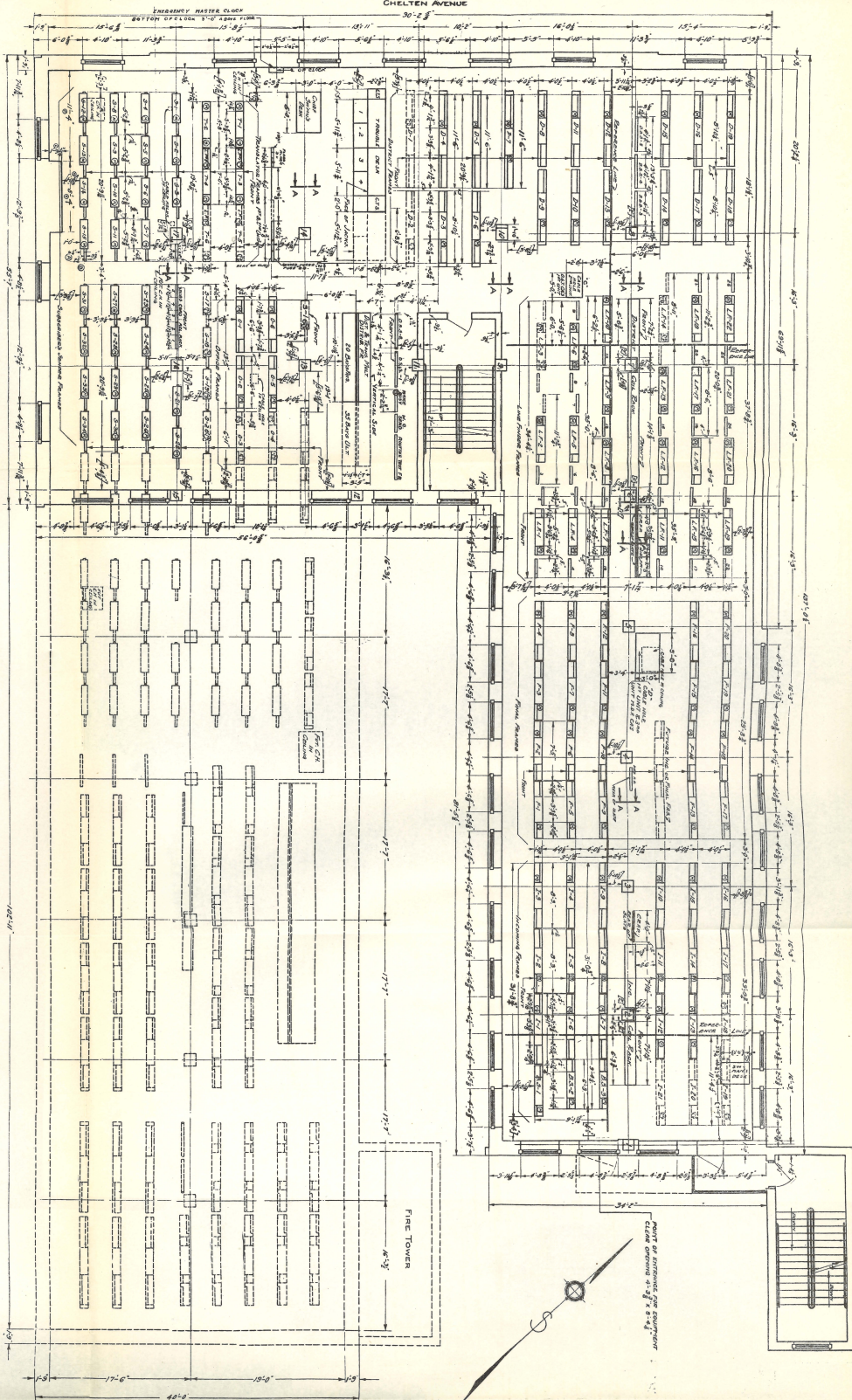


TABLE 1
MECHANICAL ROOMS

Room No.	Room Name	Dimensions
1	MECHANICAL ROOM	10' x 10'
2	MECHANICAL ROOM	10' x 10'
3	MECHANICAL ROOM	10' x 10'
4	MECHANICAL ROOM	10' x 10'
5	MECHANICAL ROOM	10' x 10'
6	MECHANICAL ROOM	10' x 10'
7	MECHANICAL ROOM	10' x 10'
8	MECHANICAL ROOM	10' x 10'
9	MECHANICAL ROOM	10' x 10'
10	MECHANICAL ROOM	10' x 10'
11	MECHANICAL ROOM	10' x 10'
12	MECHANICAL ROOM	10' x 10'
13	MECHANICAL ROOM	10' x 10'
14	MECHANICAL ROOM	10' x 10'
15	MECHANICAL ROOM	10' x 10'
16	MECHANICAL ROOM	10' x 10'
17	MECHANICAL ROOM	10' x 10'
18	MECHANICAL ROOM	10' x 10'
19	MECHANICAL ROOM	10' x 10'
20	MECHANICAL ROOM	10' x 10'

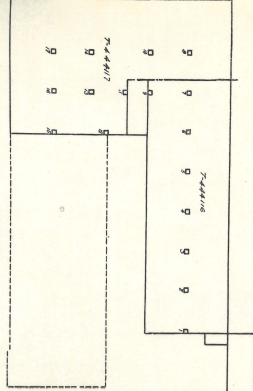
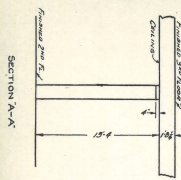
TABLE 2
PARTIAL ROOMS

Room No.	Room Name	Dimensions
21	PARTIAL ROOM	10' x 10'
22	PARTIAL ROOM	10' x 10'
23	PARTIAL ROOM	10' x 10'
24	PARTIAL ROOM	10' x 10'
25	PARTIAL ROOM	10' x 10'
26	PARTIAL ROOM	10' x 10'
27	PARTIAL ROOM	10' x 10'
28	PARTIAL ROOM	10' x 10'
29	PARTIAL ROOM	10' x 10'
30	PARTIAL ROOM	10' x 10'

TABLE 3
LINE ROOMS

Room No.	Room Name	Dimensions
31	LINE ROOM	10' x 10'
32	LINE ROOM	10' x 10'
33	LINE ROOM	10' x 10'
34	LINE ROOM	10' x 10'
35	LINE ROOM	10' x 10'
36	LINE ROOM	10' x 10'
37	LINE ROOM	10' x 10'
38	LINE ROOM	10' x 10'
39	LINE ROOM	10' x 10'
40	LINE ROOM	10' x 10'

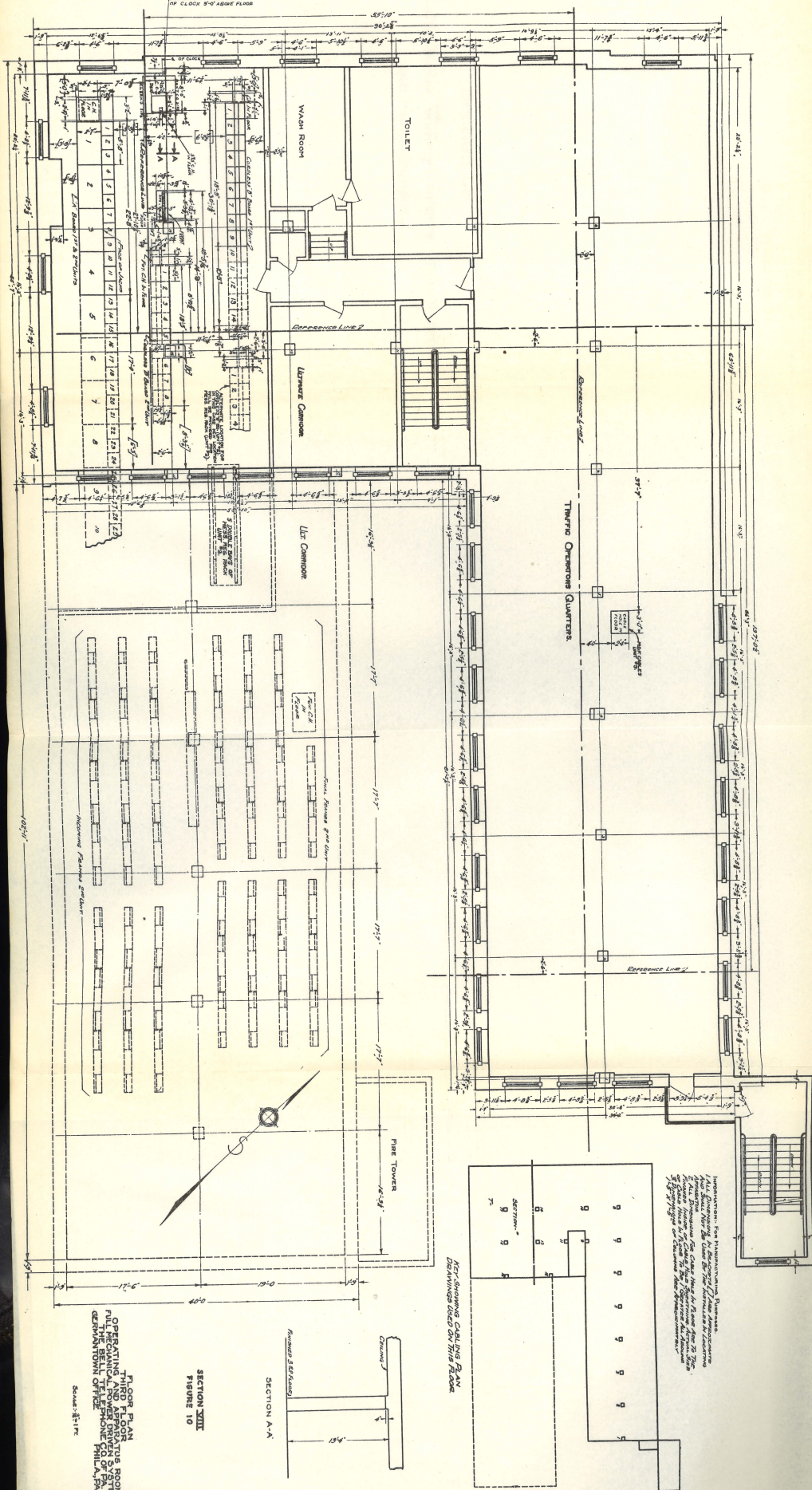
SECTION VIII
FLOOR PLAN
APPROXIMATE ROOM
DIMENSIONS
FULL MECHANICAL ROOM
DIMENSIONS
PARTIAL ROOM
DIMENSIONS
LINE ROOM
DIMENSIONS
Scale: 1/8" = 1'-0"



NOTES:
1. ALL ROOMS TO BE FINISHED WITH PLASTER AND PAINT.
2. ALL ROOMS TO BE VENTILATED BY MEANS OF MECHANICAL EXHAUST SYSTEM.
3. ALL ROOMS TO BE HEATED BY MEANS OF MECHANICAL HEATING SYSTEM.
4. ALL ROOMS TO BE LIGHTED BY MEANS OF MECHANICAL LIGHTING SYSTEM.
5. ALL ROOMS TO BE COOLED BY MEANS OF MECHANICAL COOLING SYSTEM.
6. ALL ROOMS TO BE SOUNDED BY MEANS OF MECHANICAL SOUNDING SYSTEM.
7. ALL ROOMS TO BE SMOKE-PROOFED BY MEANS OF MECHANICAL SMOKE-PROOFING SYSTEM.
8. ALL ROOMS TO BE FIRE-PROOFED BY MEANS OF MECHANICAL FIRE-PROOFING SYSTEM.
9. ALL ROOMS TO BE BURGLAR-PROOFED BY MEANS OF MECHANICAL BURGLAR-PROOFING SYSTEM.
10. ALL ROOMS TO BE THEFT-PROOFED BY MEANS OF MECHANICAL THEFT-PROOFING SYSTEM.
11. ALL ROOMS TO BE TERRORISM-PROOFED BY MEANS OF MECHANICAL TERRORISM-PROOFING SYSTEM.
12. ALL ROOMS TO BE NUCLEAR-PROOFED BY MEANS OF MECHANICAL NUCLEAR-PROOFING SYSTEM.
13. ALL ROOMS TO BE BIOLOGICAL-PROOFED BY MEANS OF MECHANICAL BIOLOGICAL-PROOFING SYSTEM.
14. ALL ROOMS TO BE CHEMICAL-PROOFED BY MEANS OF MECHANICAL CHEMICAL-PROOFING SYSTEM.
15. ALL ROOMS TO BE RADIOACTIVE-PROOFED BY MEANS OF MECHANICAL RADIOACTIVE-PROOFING SYSTEM.
16. ALL ROOMS TO BE TOXIC-PROOFED BY MEANS OF MECHANICAL TOXIC-PROOFING SYSTEM.
17. ALL ROOMS TO BE CORROSIVE-PROOFED BY MEANS OF MECHANICAL CORROSIVE-PROOFING SYSTEM.
18. ALL ROOMS TO BE EXPLOSIVE-PROOFED BY MEANS OF MECHANICAL EXPLOSIVE-PROOFING SYSTEM.
19. ALL ROOMS TO BE FLAMMABLE-PROOFED BY MEANS OF MECHANICAL FLAMMABLE-PROOFING SYSTEM.
20. ALL ROOMS TO BE INFLAMMABLE-PROOFED BY MEANS OF MECHANICAL INFLAMMABLE-PROOFING SYSTEM.

CHELTON AVENUE

MASTER CLOCK BOTTOM
OF CLOCK ROOM FLOOR



FLOOR PLAN
OPERATING AND REPAIRS ROOM
THE BELL TELEPHONE CO. OF PHA.
SECTION XIII
FIGURE 10
Scale 1/8" = 1'-0"

SECTION A-A

NOT SHOWN CLOTHING ROOM
DRAWINGS USED ON THIS FLOOR

INDICATIONS FOR MANUFACTURING ROOMS
FROM SECTION XIII OF THE FLOOR PLAN
THE BELL TELEPHONE CO. OF PHA.
SECTION XIII
FIGURE 10
Scale 1/8" = 1'-0"

Section IX

**Cabling, Cable Racks, Rolling Ladders, Superstructure
and Frame Supports**

SWITCHBOARD CABLES

CODE	SIZE	WIDTH THICK.	NO. OF COND.	PAIRS W/ GA.	THICK. W/ GA.	SP. PRG. W/ GA.	SP. SLS. W/ GA.	INS. OF COND.	INS. OF CABLES	LEAD COVERED WHEN SPECIFIED
1186	406	313	6	316	10 22	1 22	1 22	DS&SC ENAM.	DC. LT. B&P	USE 6/192
1187	563	344	12	616	10 22	1 22	1 22	"	"	
1188	563	375	12	616	10 22	1 22	1 22	"	"	
1200	701	4375	20	1016	20 22	1 22	1 22	DC ENAM.	"	
6016	8125	427	63	20 22	20 22	1 22	1 22	"	"	
6024	695	375	43	20 22	20 22	1 22	1 22	"	"	
6035	75	430	53	25 22	10 22	1 22	1 22	"	"	
6050	625	375	33	10 22	10 22	1 22	1 22	"	"	
6060	851	430	75	36 22	10 22	1 22	1 22	"	"	
6066	701	430	63	30 22	10 22	1 22	1 22	"	"	
6066	75	75	103	50 22	10 22	1 22	1 22	"	"	
6069	1125	1125	205	100 22	10 22	1 22	1 22	"	"	
6070	344	344	83	40 22	10 19	1 22	1 22	"	"	
6072	344	375	21	10 22	20 22	1 22	1 22	"	"	
6074	375	375	23	10 22	20 22	1 22	1 22	"	"	
6074	5	355	63	20 22	20 22	1 22	1 22	"	"	
6084	135	344	35	16 22	20 22	1 22	1 22	"	"	
6087	306	437	41	11 22	6 14	1 22	1 22	"	"	
6095	1125	75	132	64 22	32 22	1 22	1 22	"	"	
6097	1125	75	166	64 22	32 22	1 22	1 22	"	"	
6100	719	562	83	40 24	20 24	1 24	1 24	"	"	
6102	875	5	103	40 24	20 24	1 24	1 24	"	"	
6103	625	375	42	20 24	20 24	1 22	1 22	"	"	
6106	10	563	103	40 22	20 22	1 22	1 22	"	"	
6107	103	563	104	39 22	15 24	1 22	1 22	"	"	
6115	338	430	64	20 19	20 22	1 19	1 19	"	"	
6116	875	375	43	20 19	10 19	1 19	1 19	"	"	
6117	369	5	83	20 19	10 19	1 19	1 19	"	"	
6119	1089	75	103	50 19	20 24	1 24	1 24	"	"	
6120	775	359	63	20 24	20 24	1 24	1 24	"	"	
6121	75	430	25	10 14	10 22	1 22	1 22	"	"	
6123	531	531	45	10 14	10 22	1 22	1 22	"	"	
6124	625	625	65	10 14	10 22	1 22	1 22	"	"	
6125	563	344	23	10 19	10 19	1 19	1 19	"	"	
6126	75	375	43	10 19	10 22	1 19	1 19	"	"	
6127	656	375	33	10 19	10 22	1 19	1 19	"	"	
6128	8125	8125	82	40 18	10 22	1 19	1 19	"	"	
6166	866	866	6	320	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6178	1125	1125	213	102 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6179	359	359	12	620	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6180	422	422	16	820	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6181	469	281	22	1120	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6182	430	281	13	622	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6183	75	4063	53	20 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6184	63	5	63	20 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6189	10	5625	105	40 24	20 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6190	5	201	30	10 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6191	7187	531	33	10 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6192	103	563	34	35 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6193	701	375	48	15 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6195	75	406	53	20 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6196	688	344	43	20 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6199	695	375	42	12 8 22	10 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6201	701	437	63	20 22	20 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6201	437	437	70	20 22	20 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6204	781	375	39	12 22	12 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6205	781	375	39	12 22	12 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	
6207	391	391	6	20	20 22	3 22	3 22	DS&SC ENAM.	DC. LT. B&P	

SHEET N° 1
ES-225210

SECTION IX - FIG. 1

SWITCHBOARD CABLES

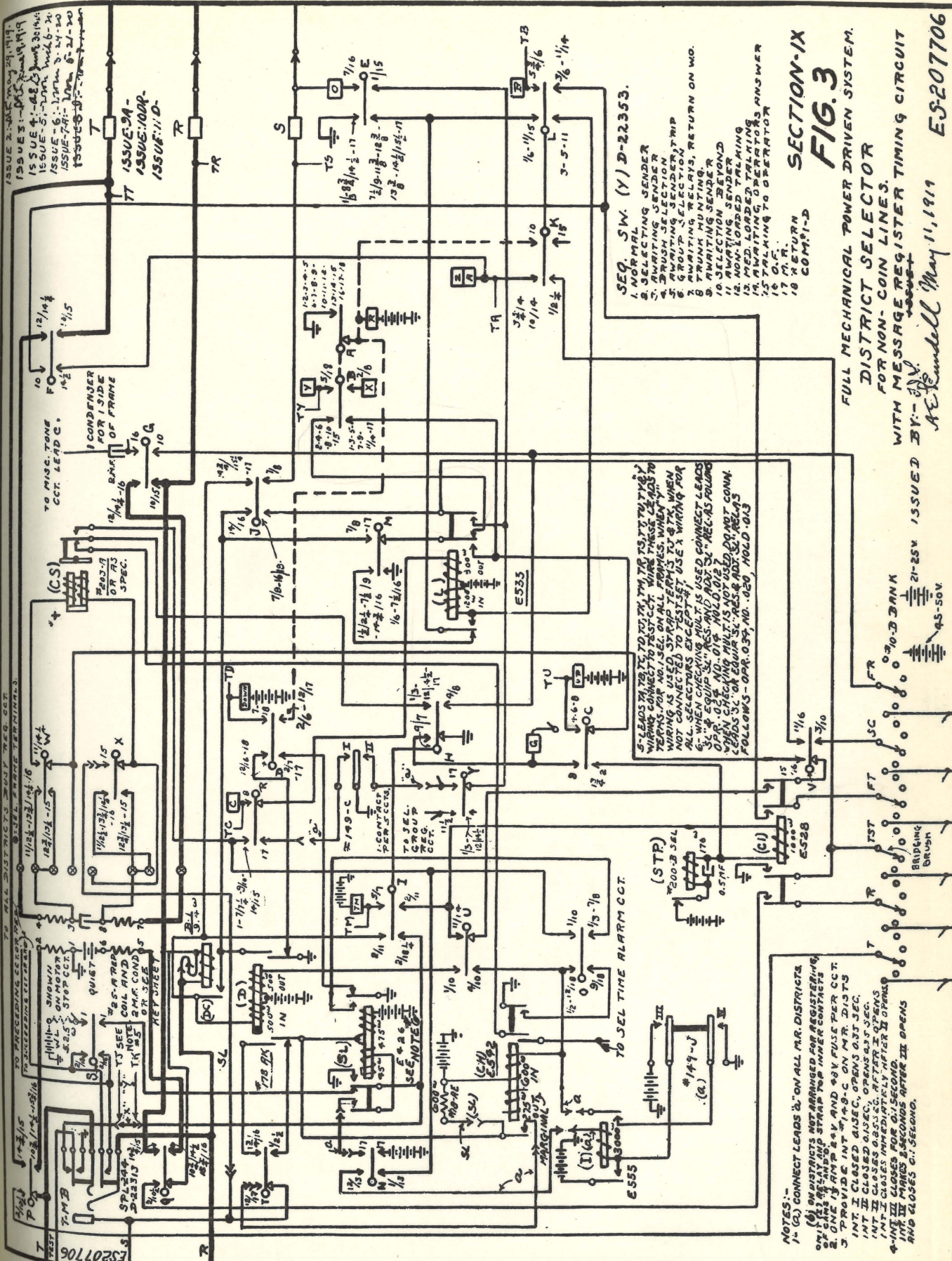
CODE	SIZE	WIDTH THICK.	NO. OF COND.	PAIRS W/ GA.	THICK. W/ GA.	SP. PRG. W/ GA.	SP. SLS. W/ GA.	INS. OF COND.	INS. OF CABLES
6208	930	430	17	4	20	3 20	3 20	DS&SC ENAM.	"
6209	404	404	24	4	20	3 20	3 20	"	"
6210	422	422	16	1	20	3 20	3 20	"	"
6211	469	469	21	1	20	3 20	3 20	"	"
6212	453	453	20	2	20	3 20	3 20	"	"
6213	5	5	26	2	20	3 20	3 20	"	"
6214	438	438	18	2	20	3 20	3 20	"	"
6215	75	406	32	4	19	20 16	1 19	DC ENAM.	DC. LT. B&P
6217	75	406	46	5	19	34 22	1 19	"	"
6218	563	320	39	5	19	27 22	1 19	"	"
6219	1125	594	113	40	22	30 22	1 22	"	"
6220	5	313	23	10	22	30 22	1 22	"	"
6221			62	30	19	1 19	1 19	"	"

SWITCHBOARD CABLES
CODE NUMBERS AND DIMENSIONS
FULL MECHANICAL POWER DRIVEN SYSTEM

APPROVED
DRAWN BY
CHECKED BY
WESTERN ELECTRIC CO., INC. N. Y. ENG. DEPT.

CODE	SIZE	WIDTH THICK.	NO. OF COND.	PAIRS W/ GA.	THICK. W/ GA.	SP. PRG. W/ GA.	SP. SLS. W/ GA.	INS. OF COND.	INS. OF CABLES
D3365	375	375	24	4	19	13 16	1 19	DS&SC	DC. LT. B&P
D3574	1031	813	146	4	19	20 22	1 19	"	"
D3576	6075	375	19	4	19	0 16	1 19	"	"
D3577	875	375	27	4	19	15 16	1 19	"	"
D11903	835	375	32	4	19	20 16	1 19	"	"
D13393	5	3125	13	4	19	12 16	1 16	"	"
D5819	1125	1125	14	2	22	10 16	3 22	"	"
D5823	101	4062	22	10	16	20 22	1 16	"	"
D5996	701	4062	22	10	16	20 22	1 16	"	"
D5997	781	4062	64	20	16	20 22	1 16	"	"

SHEET N° 2
ES-225210



NOTES:-
1- (G) CONNECT LEADS 2- ON ALL M.R. DISTRICTS
(G) BY DISTRICTS NOT ARRANGED FOR REGISTERING
ON CASH STRAP AND CASH STRAP FOR INNER CONTACTS
2- ONE 15 AMP 250V AND 98V FUSE PER CCT.
3- PROVIDE INT 14-B-C ON M.R. DIS TS
INT I CLOSED 0.1 SEC, OPENS 0.3 SEC.
INT II CLOSED 0.1 SEC, OPENS 0.3 SEC.
INT III CLOSING IMMEDIATELY AFTER II OPENS
4- INT III CLOSING FOR 0.1 SECOND.
INT III OPENS 2 SECONDS AFTER INT II OPENS
AND CLOSING 0.1 SECOND.

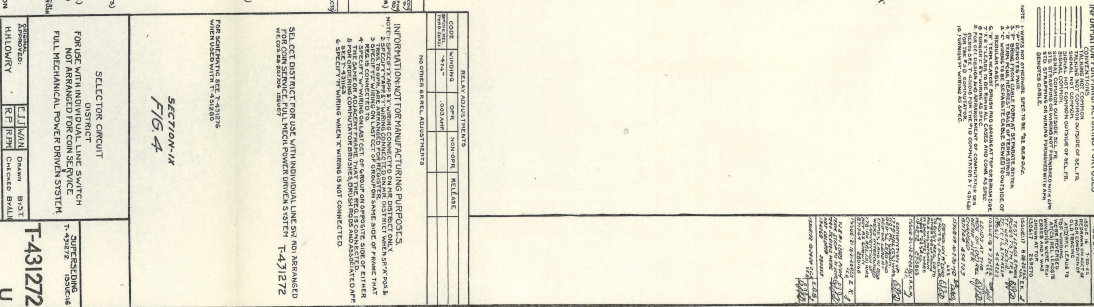
SEQ. SW. (Y) D-22353.

- 1. NORMAL
- 2. SELECTING SENDER
- 3. AWAITING SENDER
- 4. GROUP SELECTION
- 5. GROUP SELECTION
- 6. GROUP SELECTION
- 7. AWAITING RELAYS, RETURN ON WO.
- 8. AWAITING SENDER
- 9. AWAITING SENDER
- 10. AWAITING SENDER
- 11. AWAITING SENDER
- 12. NON-LOADED TALKING
- 13. MED. LOADED TALKING
- 14. AWAITING OPERATOR
- 15. TALKING TO OPERATOR
- 16. TALKING TO OPERATOR
- 17. TALKING TO OPERATOR
- 18. RETURN
- 19. COMPI-D

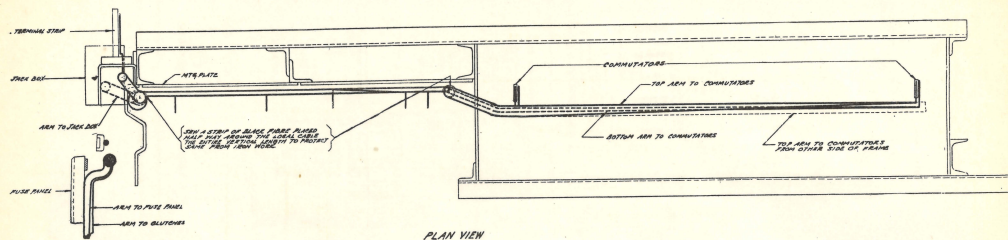
SECTION-IX FIG. 3

FULL MECHANICAL POWER DRIVEN SYSTEM.
DISTRICT SELECTOR
FOR NON-COIN LINES.

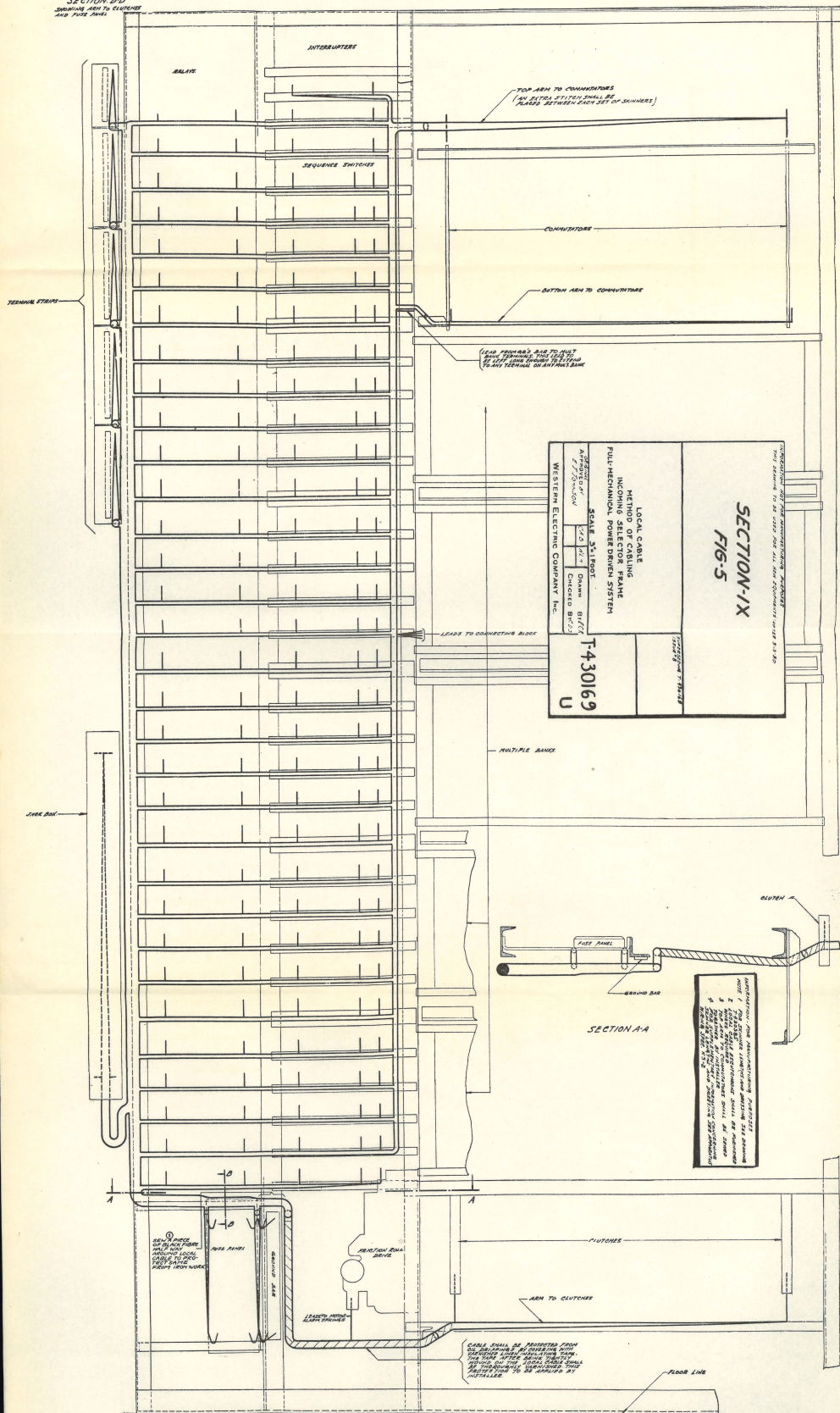
WITH MESSAGE REGISTER TIMING CIRCUIT
BY: *AE Rendell* May 11, 1919
ES-207706



130617 AFPTD



SECTION B-B
SHOWING ARM TO DISRUPTERS
AND FUSE PANEL



SECTION-IX
FIG-5

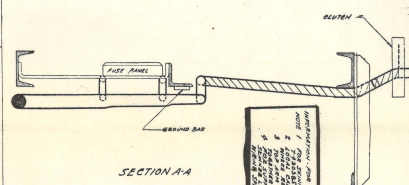
LOCAL CABLE
NOT TO BE USED
INCOMING SELECTOR FRAME
FULL-MECHANICAL POWER-DRIVEN SYSTEM

SCALE: 3/16" = 1"

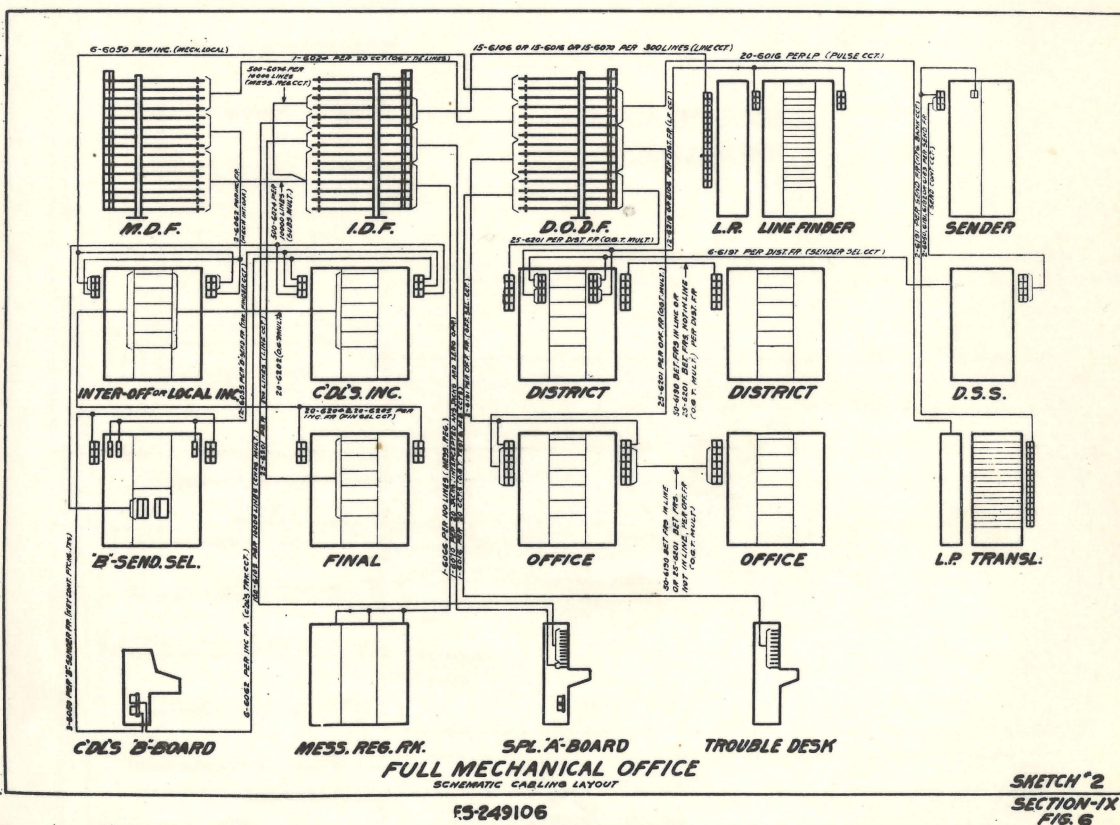
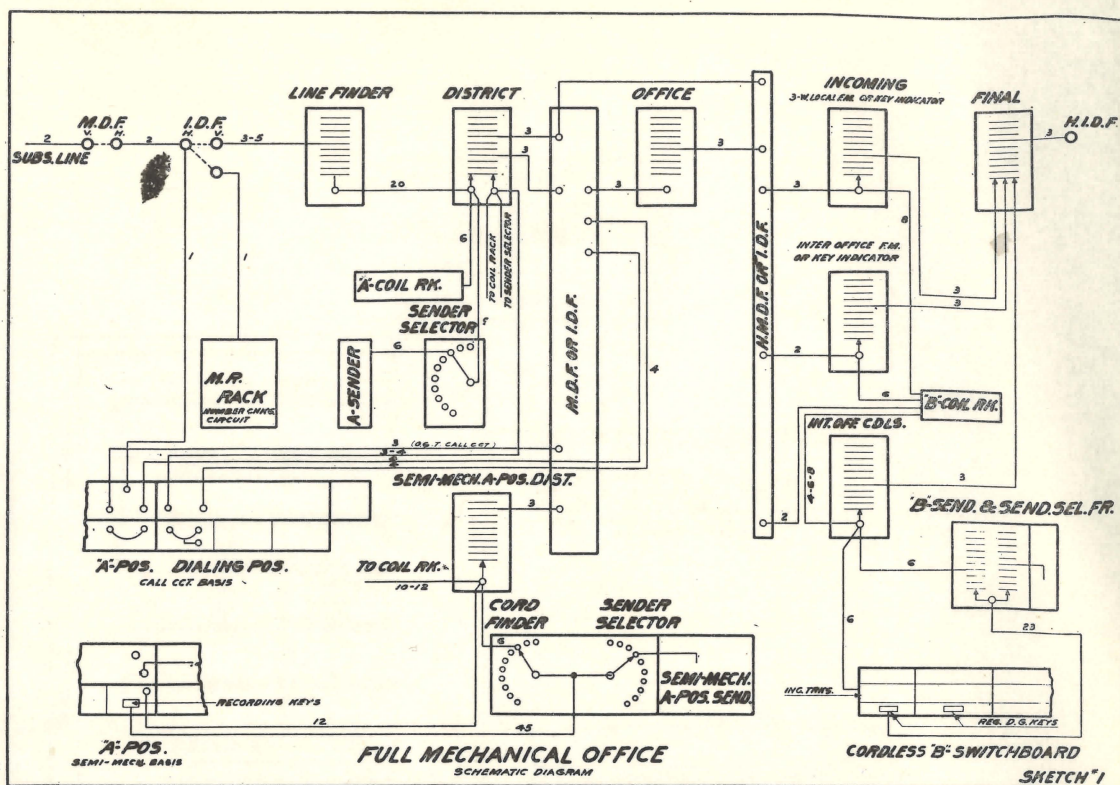
APPROVED BY: [Signature]
DATE: 1/1/50
CHECKED BY: [Signature]

WESTERN ELECTRIC COMPANY INC.

T-430169
U



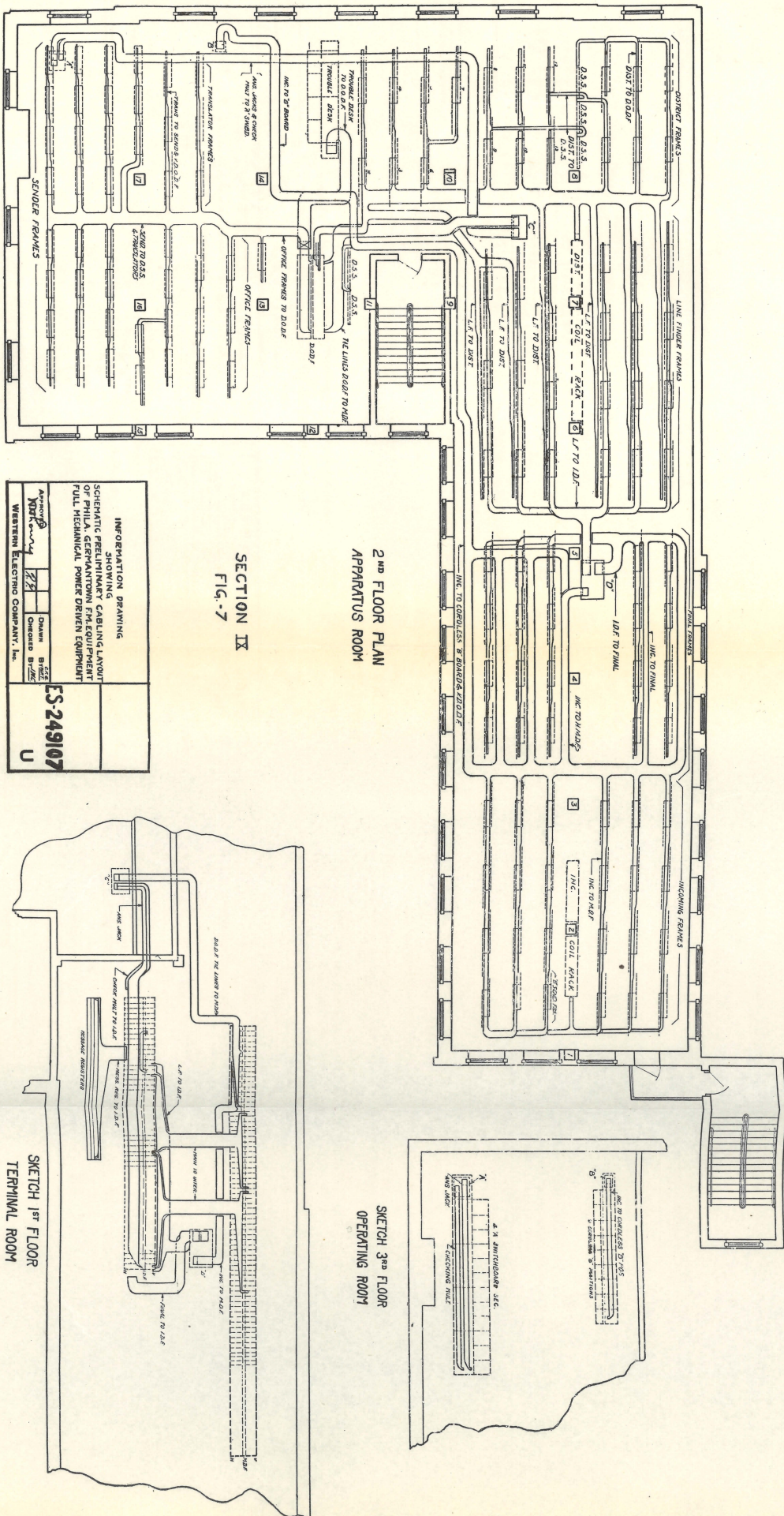
NOTES:
1. ALL CABLES SHALL BE PROTECTED FROM MECHANICAL DAMAGE BY INSTALLING THEM IN CONDUITS OR RIGID TUBING.
2. ALL CABLES SHALL BE IDENTIFIED BY COLOR OR TAGS.
3. ALL CABLES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
4. ALL CABLES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
5. ALL CABLES SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL ELECTRICAL CODES.

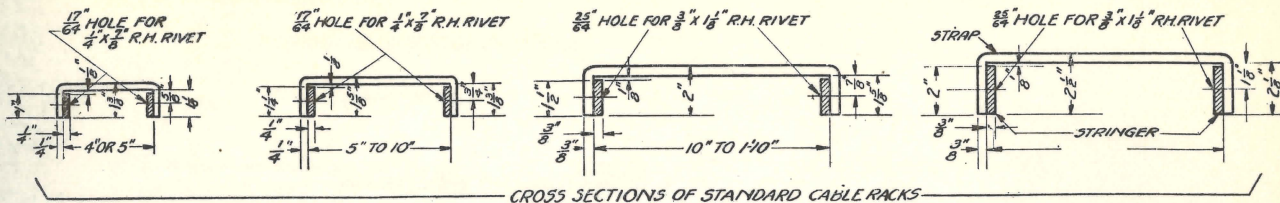


INFORMATION DRAWINGS
SHOWING
SCHEMATIC LAYOUTS OF LEADS IN CABLE
FOR A MECHANICAL UNIT
FULL MECHANICAL POWER DRIVEN SYSTEM

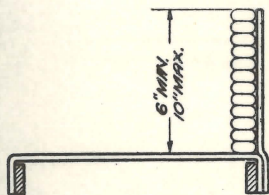
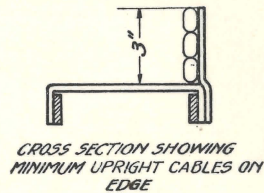
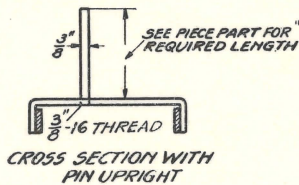
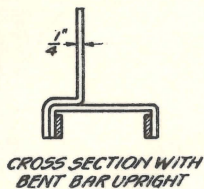
APPROVED: *[Signature]* DRAWN BY: *[Signature]*
CHECKED BY: *[Signature]*

WESTERN ELECTRIC CO. INC. N.Y. ENG. DEPT.



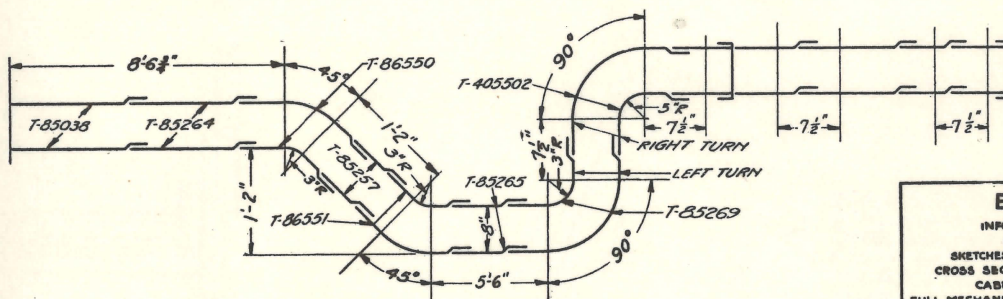
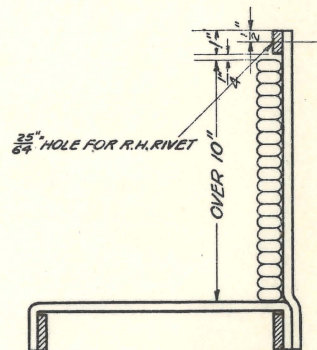


CROSS SECTIONS OF STANDARD CABLE RACKS



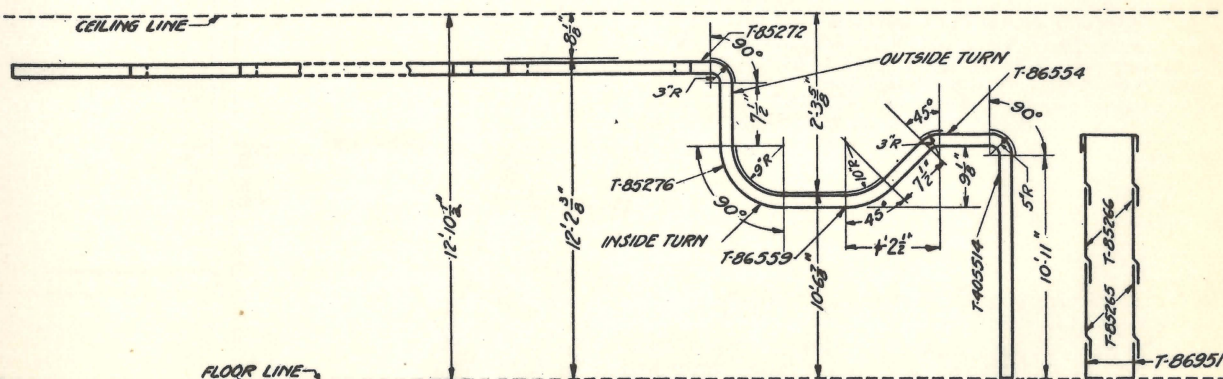
PINS		
DIA	OVERALL LENGTH	PIECE PART
3/16"	4 1/4"	P-67159
3/16"	5 1/2"	P-65195
3/16"	5 3/4"	P-44559
3/16"	7"	P-65302
3/16"	8 1/2"	P-65196

SKETCH-1
STANDARD CABLE RACK
CROSS SECTIONS

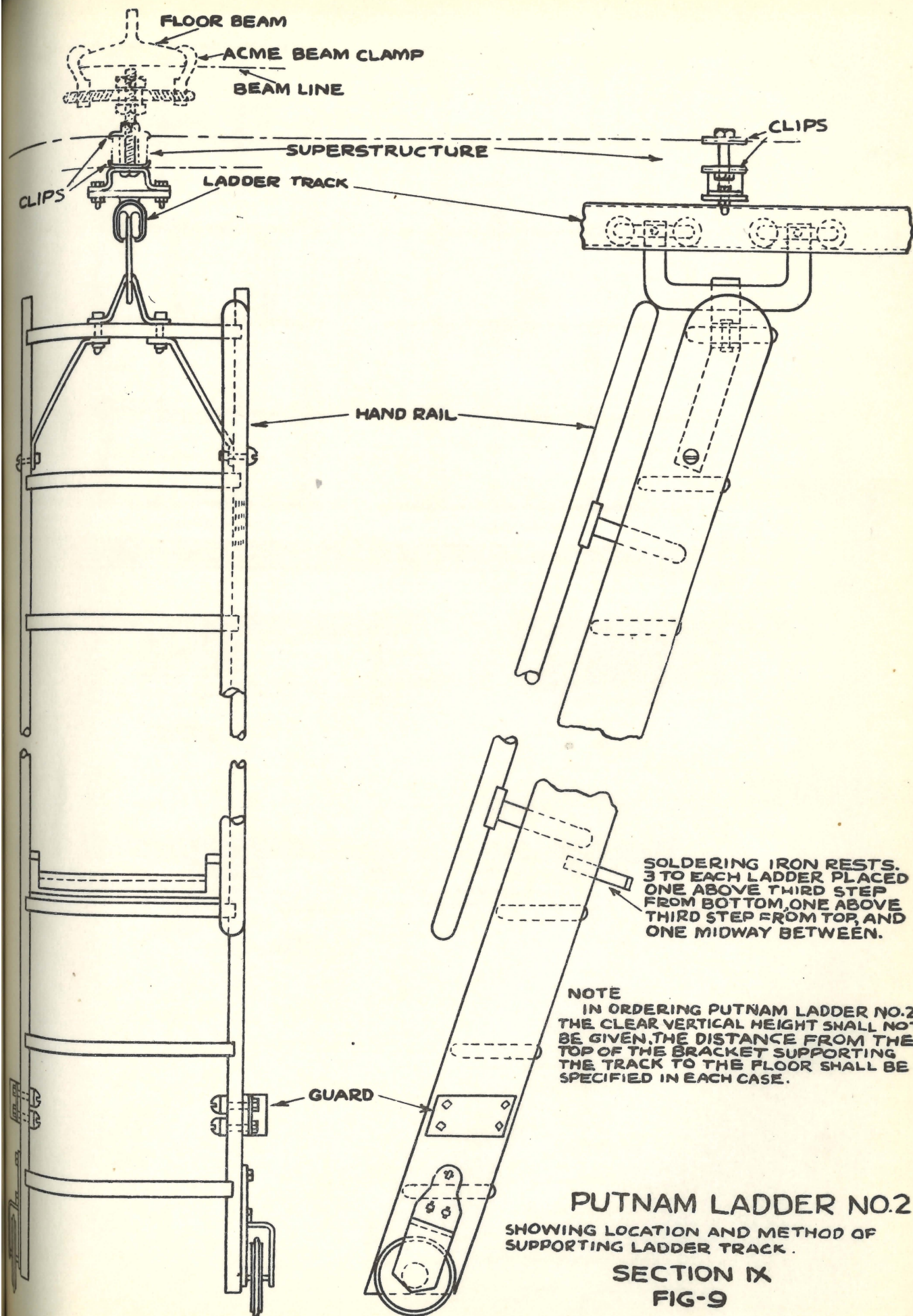


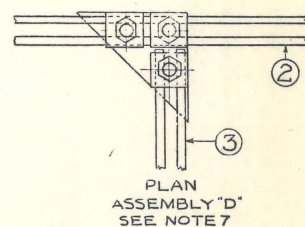
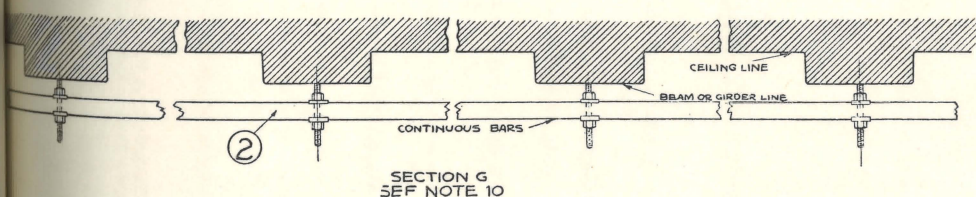
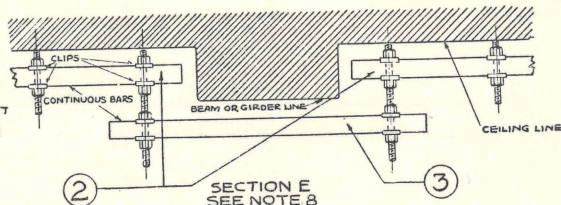
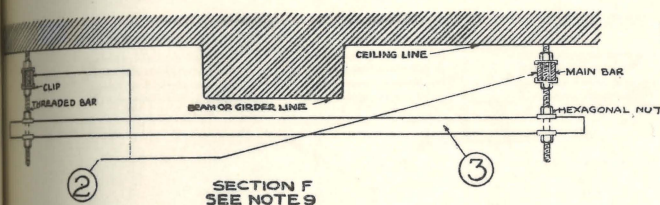
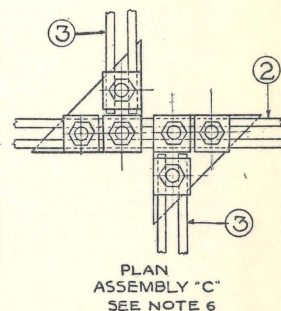
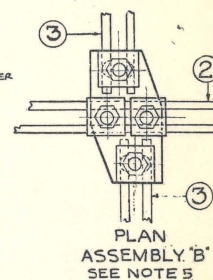
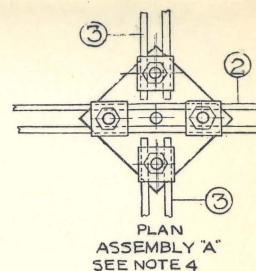
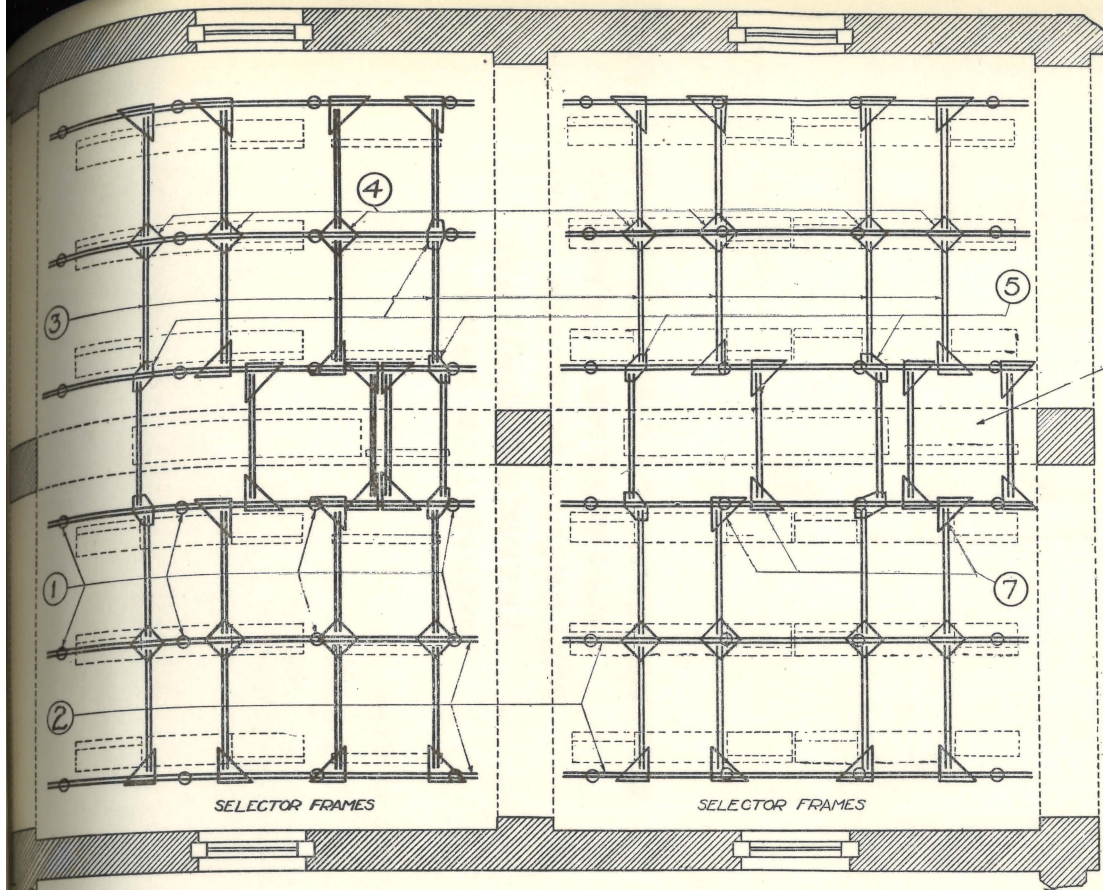
ES-249113
INFORMATION DRAWING
CABLE RACKS
SKETCHES SHOWING STANDARD
CROSS SECTIONS AND A SPECIMEN
CABLE RACK LAYOUT
FULL MECHANICAL POWER DRIVEN SYSTEM

APPROVED:	W. J. R. [Signature]	✓	DRAWN BY: [Signature]
	W. J. R.	✓	CHECKED BY: [Signature]
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SKETCH-2
SPECIMEN CABLE RACK DRAWING USING
STANDARD PARTIAL ASSEMBLIES





NOTES

- ① BEAM CLAMPS, OR KNEAS SOCKETS, OR FLOOR BOLTS.
- ② MAIN BARS SUPPORTED BY BEAM CLAMPS OR KNEAS SOCKETS.
- ③ INTERMEDIATE BARS SUPPORTING THE FRAMES.
- ④ USE ASSEMBLY "A" FOR SUPPORTING INTERMEDIATE BARS TO MAIN BARS WHEN THE INTERMEDIATE BARS CONTINUE IN A STRAIGHT LINE.
- ⑤ USE ASSEMBLY "B" FOR SUPPORTING INTERMEDIATE BARS TO MAIN BARS WHEN THE INTERMEDIATE BARS HAVE A 1/2" OFFSET OR LESS.
- ⑥ USE ASSEMBLY "C" FOR SUPPORTING INTERMEDIATE BARS TO MAIN BARS WHEN THE INTERMEDIATE BARS HAVE AN OFFSET OF MORE THAN 1/2".
- ⑦ USE ASSEMBLY "D" WHEN INTERMEDIATE BARS TERMINATE AT MAIN BARS.
- ⑧ SEE SECTION "E" WHEN IT IS NECESSARY TO SUPPORT FRAMES OR CABLE RUNS UNDER BEAMS OR GIRDERS AND WHERE MAIN SUPERSTRUCTURE BARS ARE PERPENDICULAR TO BEAMS OR GIRDERS.
- ⑨ SEE SECTION "F" WHEN IT IS NECESSARY TO SUPPORT FRAMES OR CABLE RUNS UNDER BEAMS OR GIRDERS AND WHERE MAIN SUPERSTRUCTURE BARS ARE PARALLEL TO BEAMS OR GIRDERS.
- ⑩ SEE SECTION "G" WHEN BEAM CLAMPS OR KNEAS SOCKETS ARE FASTENED TO BEAMS WHICH ARE NOT FLUSH WITH CEILING, RUN MAIN SUPERSTRUCTURE BARS 4" BELOW BEAM LINE.

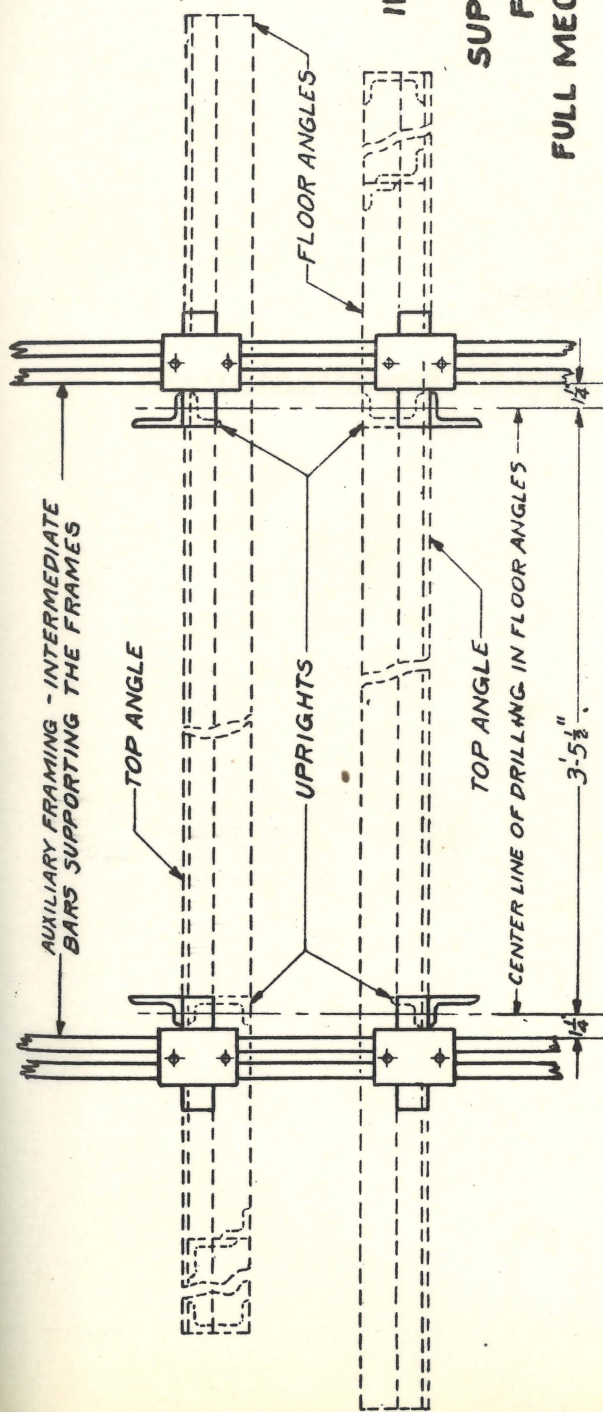
ES-249111

SECTION IX
FIG-10

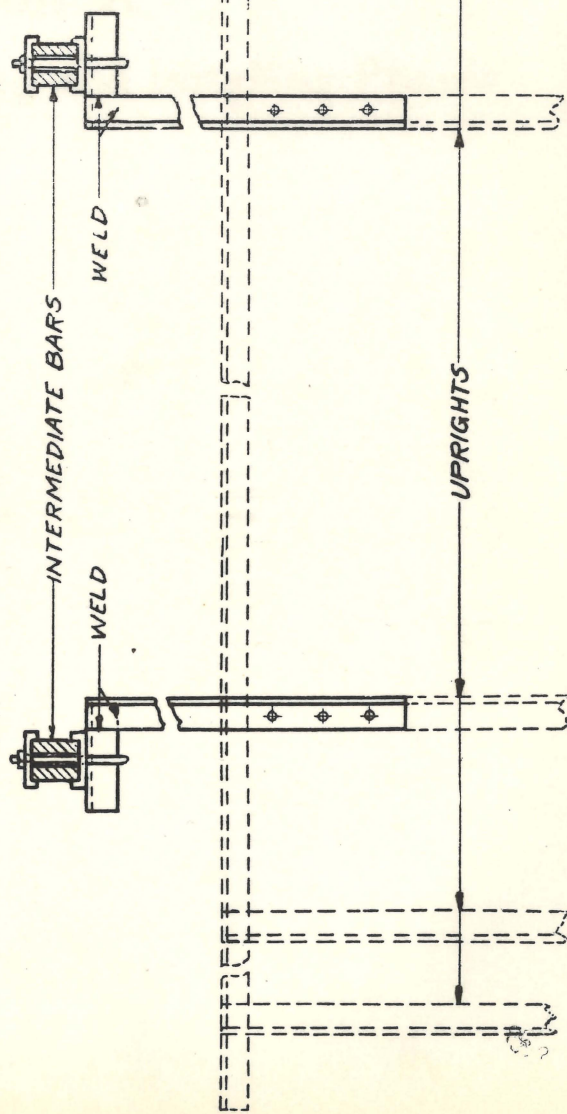
MADE FROM
F-505238 ISSUE:1

INFORMATION DRAWING
AUXILIARY FRAMING
FOR THE SUPPORT OF MACHINE SWITCHING
FRAMES, RACKS, CABLE RACKS, ETC.
FULL MECHANICAL POWER DRIVEN SYSTEM

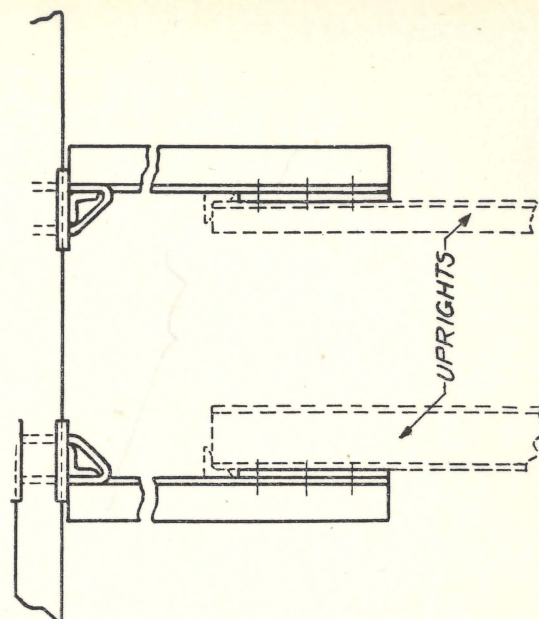
APPROVED: *W. J. Mahoney* *W. J. Mahoney* X
DRAWN BY: WVB
CHECKED BY: *W. J. Mahoney*
WESTERN ELECTRIC CO., INC., N.Y. ENG. DEPT.



INFORMATION DRAWING
 FRAME SUPPORTS FOR
 SUPPORTING SELECTOR FRAMES
 FROM AUXILIARY FRAMING
 FULL MECHANICAL POWER DRIVEN SYSTEM



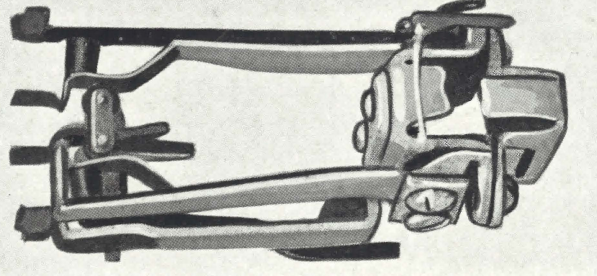
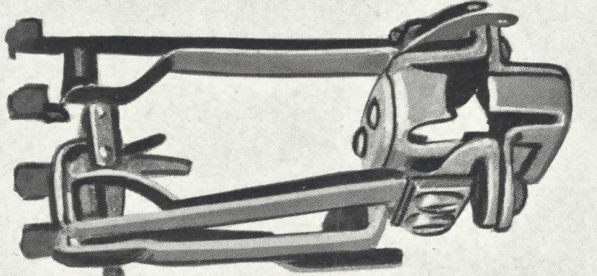
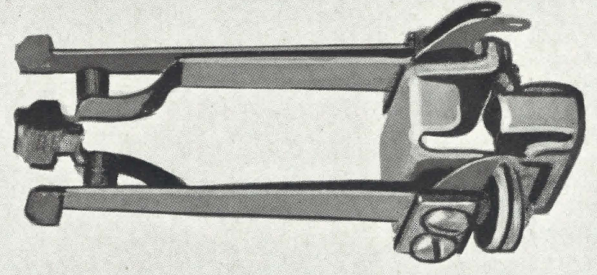
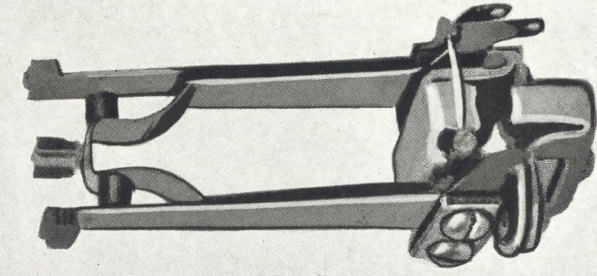
FRAME SUPPORTS
 FOR SUPPORTING SELECTOR FRAMES
 FROM AUXILIARY FRAMING



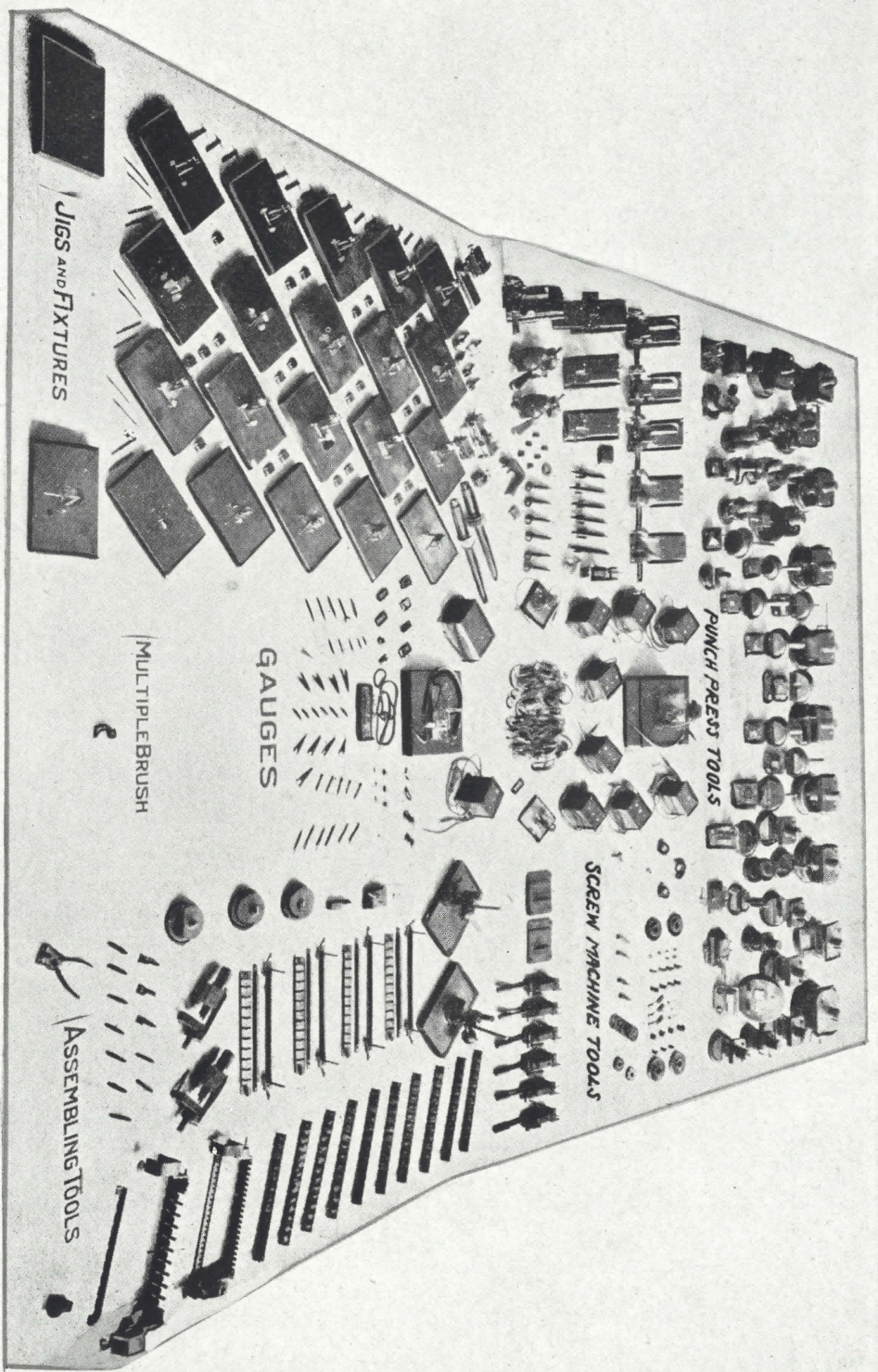
SECTION IX
 FIG. 11

Section X

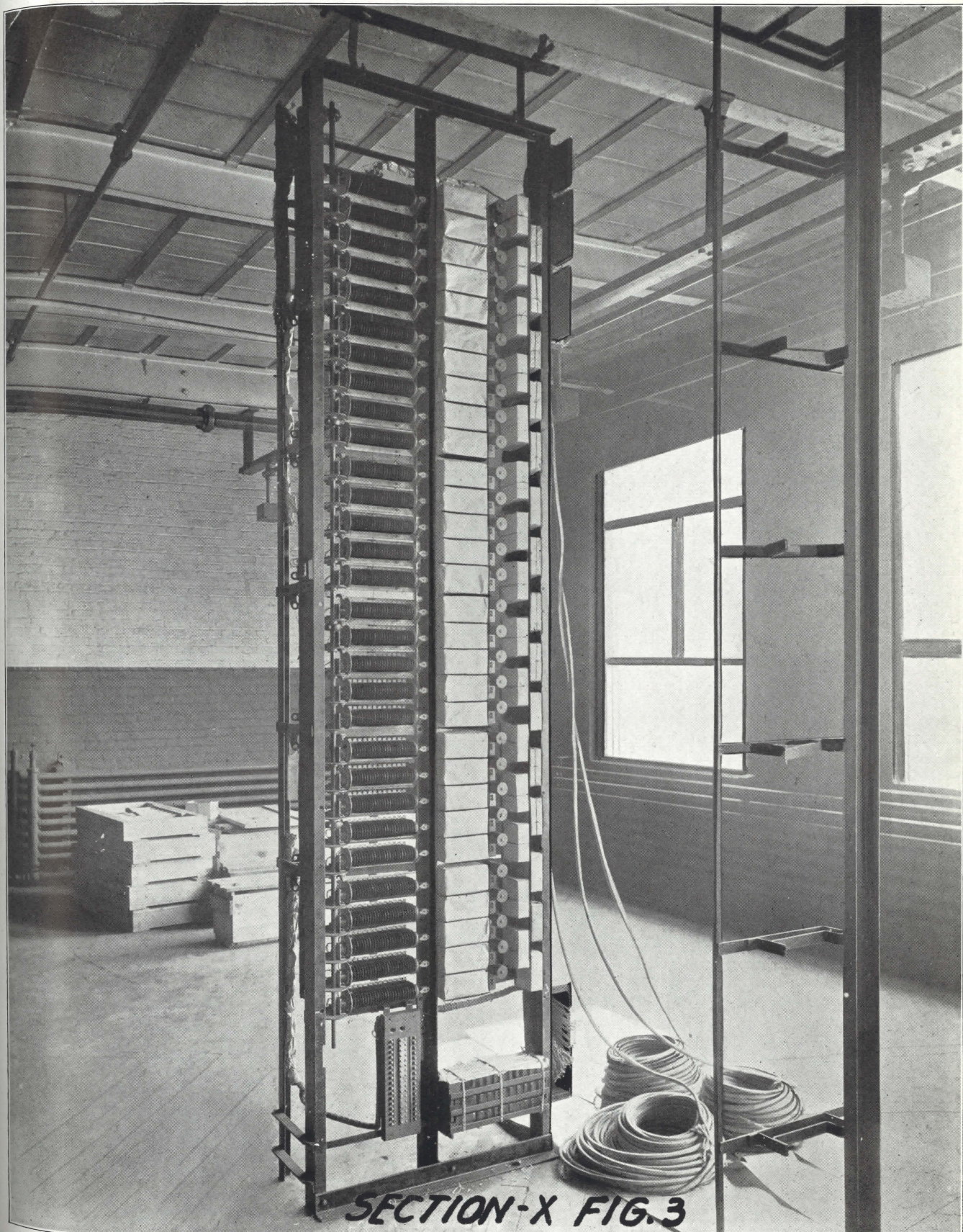
Manufacturing, Shipping and Installing Phases

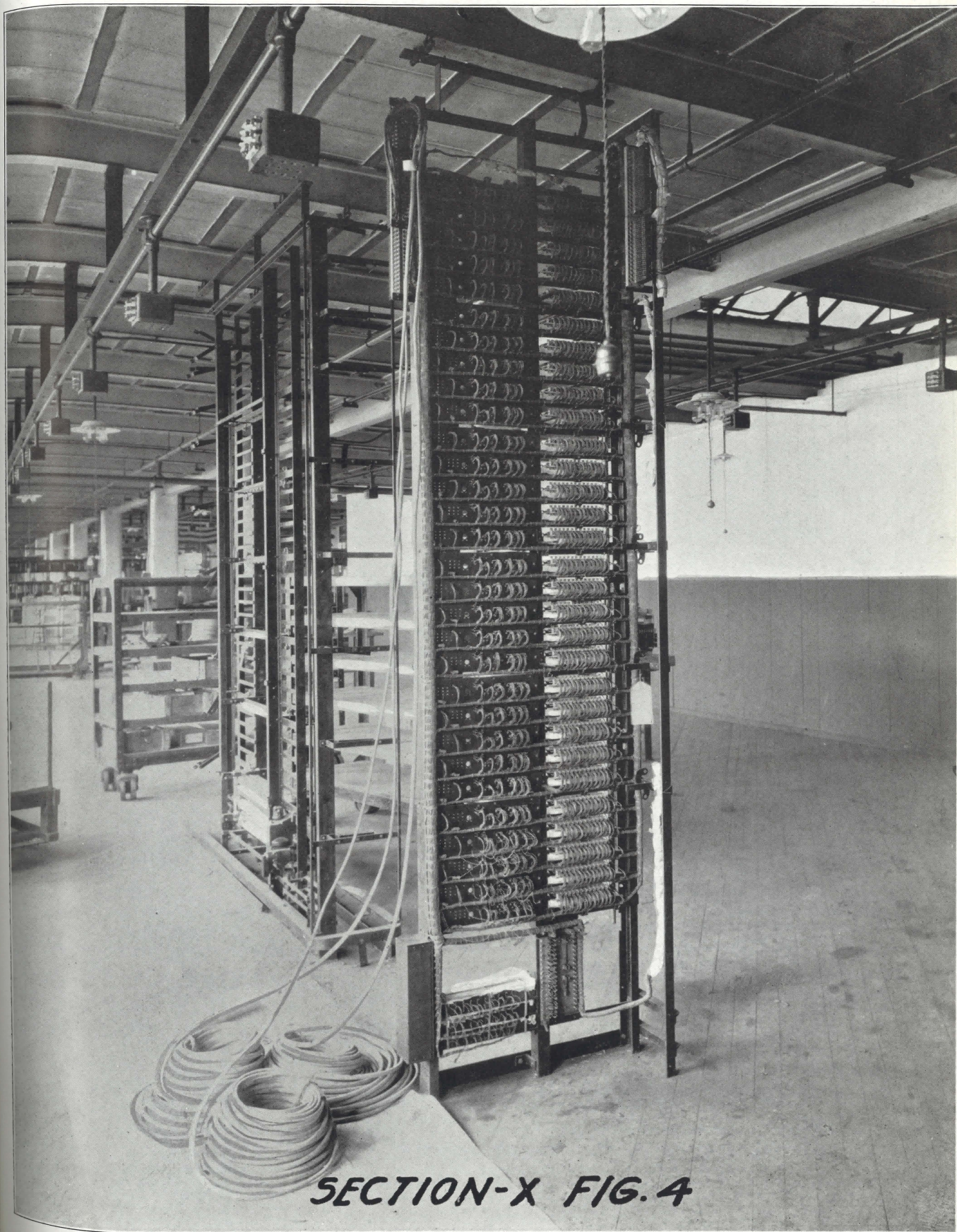


MULTIPLE BRUSHES
SECTION X
FIG. 1

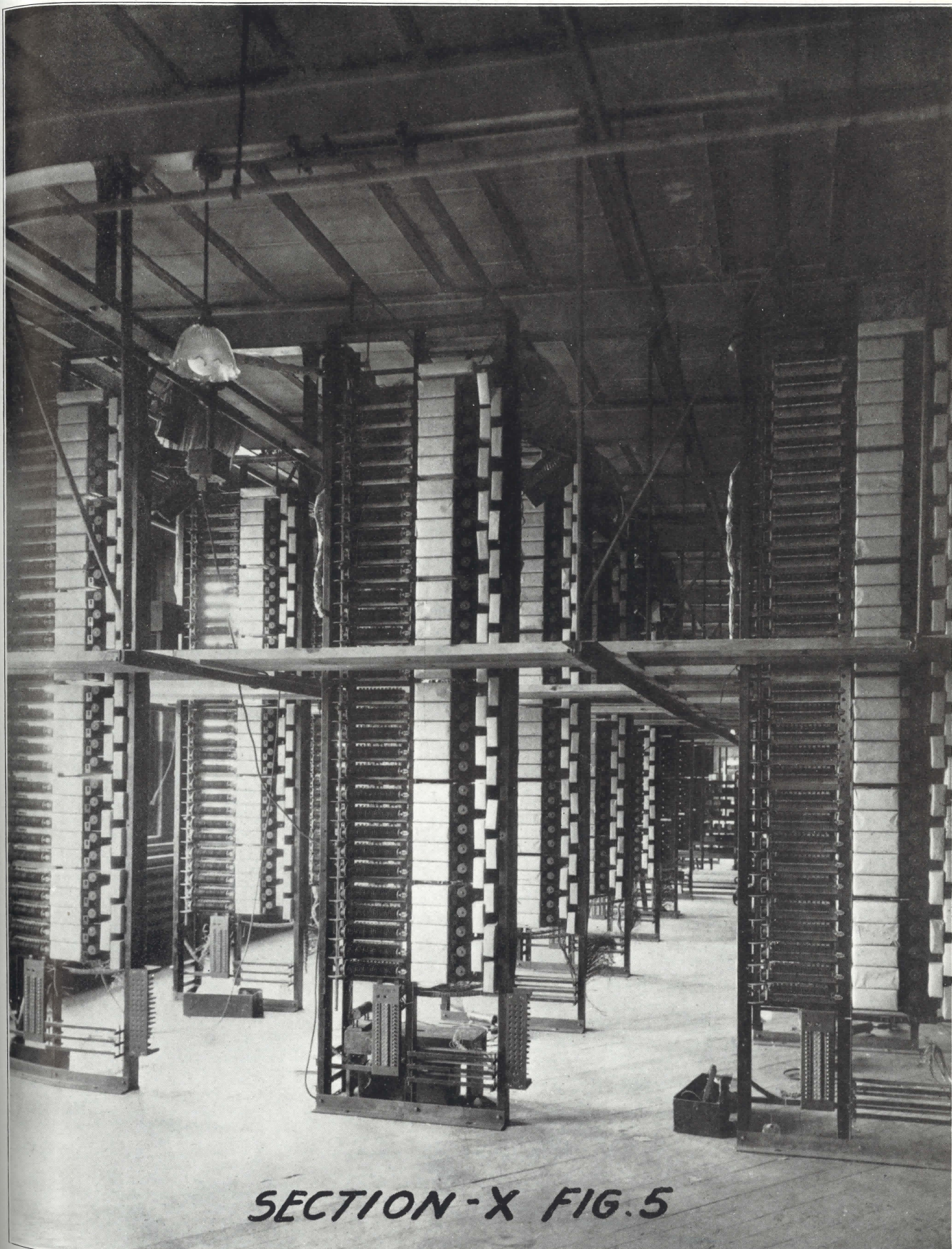


TOOLS AND GAUGES FOR MANUFACTURE OF MULTIPLE BRUSHES
SECTION X
FIG 2

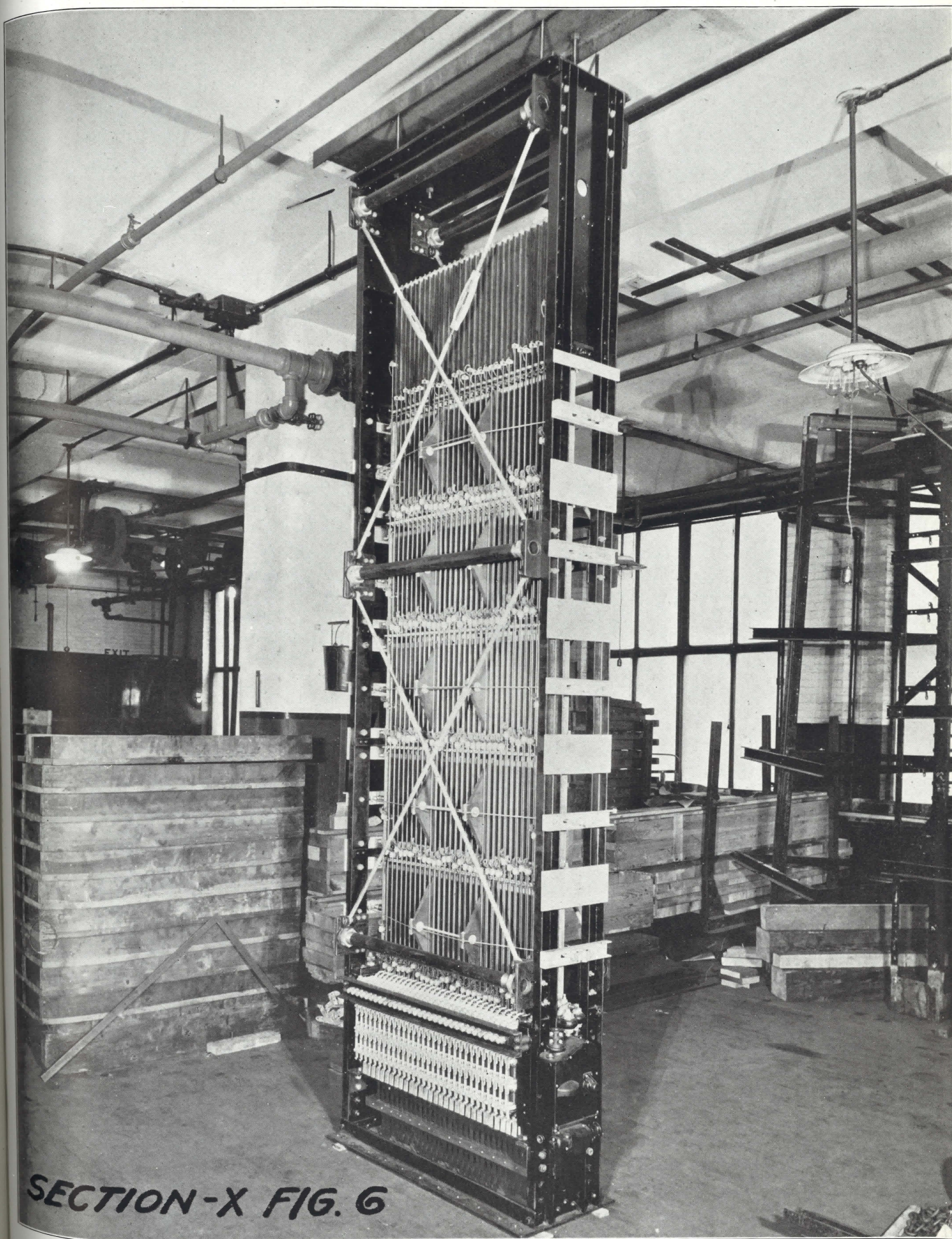


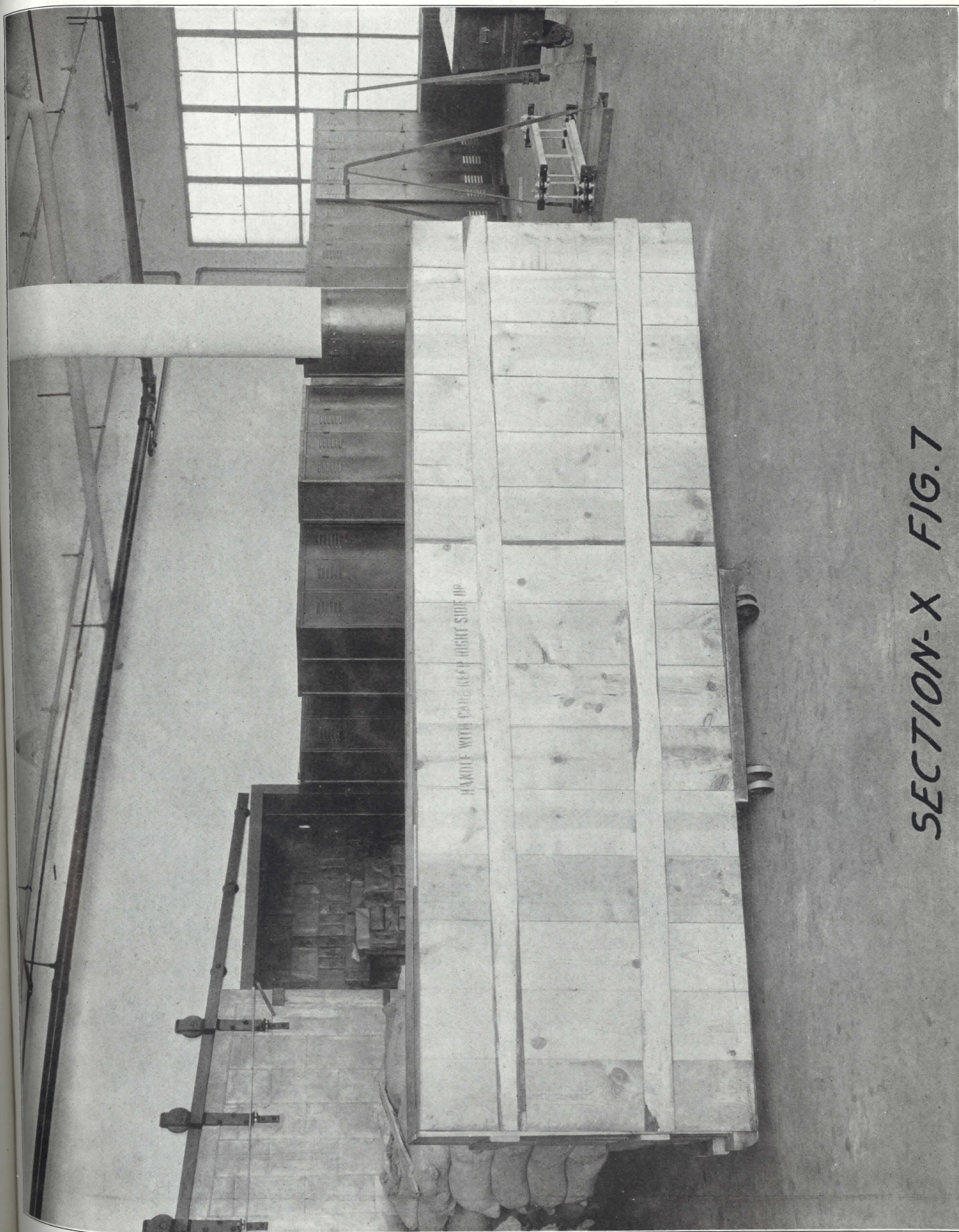


SECTION-X FIG. 4

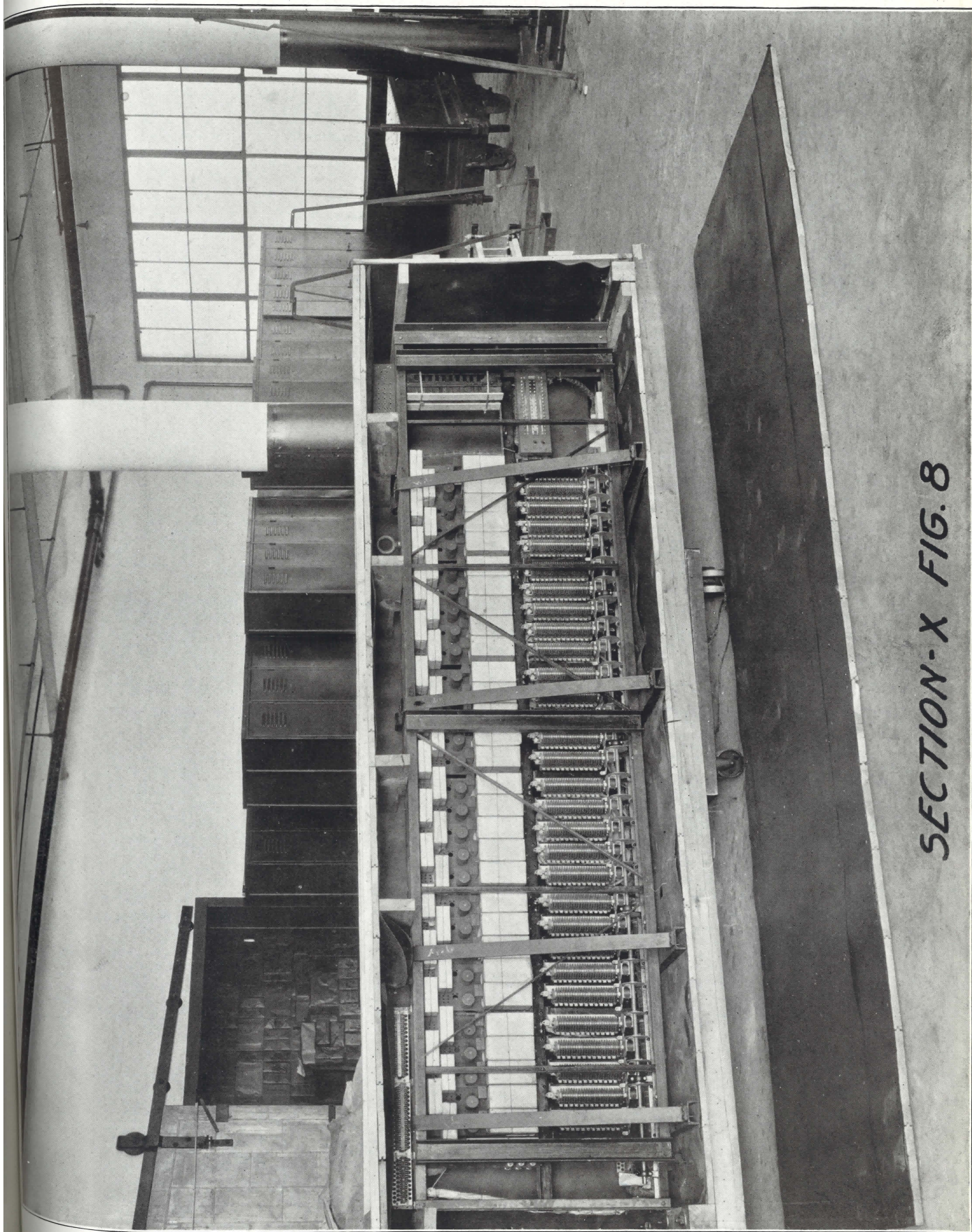


SECTION-X FIG.5





SECTION-X FIG. 7



SECTION-X FIG. 8

PACKING CASES

TABLE OF SIZES AND SHIPPING WEIGHTS

OF ASSEMBLED OR PARTIALLY ASSEMBLED FRAMES

FULL MECHANICAL POWER DRIVEN SYSTEM

DIMENSIONS OF PACKED SELECTOR FRAMES FOR SHIPPING

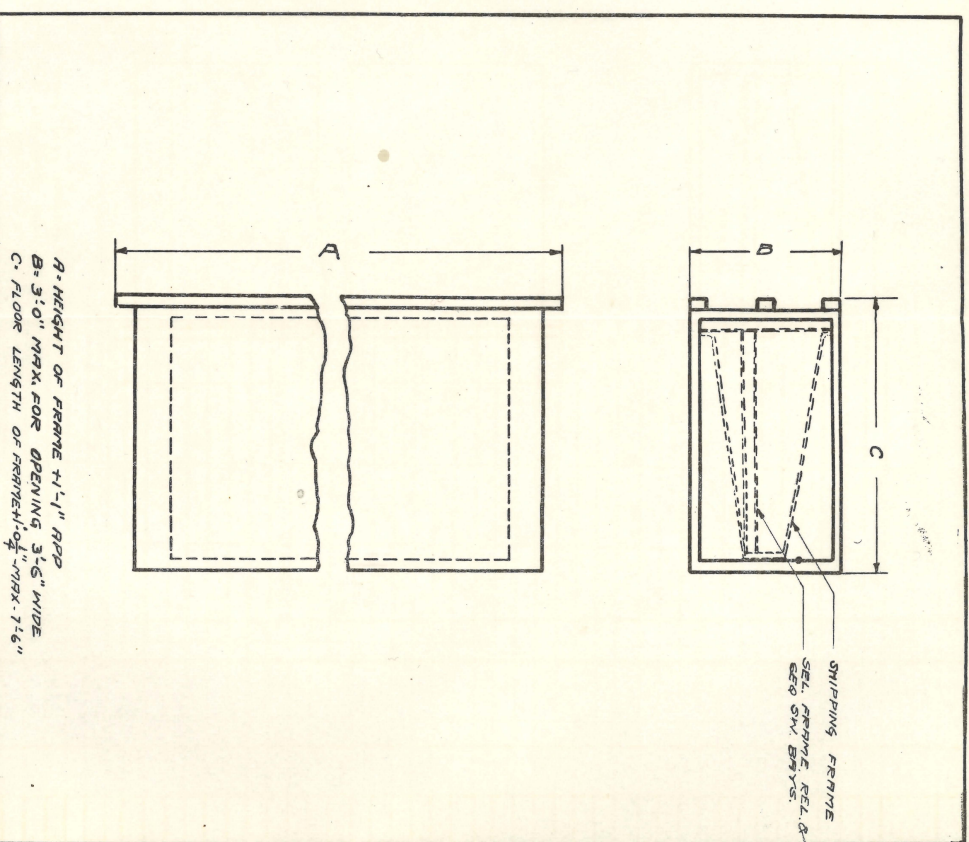
APPARATUS	FRAME	WIDTH OF REEL AND FRAME	WIDTH OF SHIPPER'S FRAME	PACKING DIMENSIONS			APPROX. SHIPPING WEIGHT IN POUNDS
NAME	HEIGHT			A	B *	C	
INCOMING	11'-6"	2'-4 1/2"	2'-4"	12'-7"	2'-7 1/2"	3'-4 1/2"	1300
INCOMING	11'-2"	2'-9 1/2"	2'-4"	12'-3"	2'-7 1/2"	3'-9 1/2"	1300
INCOMING	11'-2"	2'-9 1/2"	2'-4"	12'-3"	2'-7 1/2"	3'-9 1/2"	1300
INCOMING	11'-6"	2'-8 3/4"	2'-4"	12'-7"	2'-7 1/2"	3'-8 3/4"	1300
INCOMING	11'-6"	2'-5 1/2"	2'-4"	12'-7"	2'-7 1/2"	3'-5 1/2"	1800
INCOMING	11'-6"	2'-9 1/8"	2'-4"	12'-7"	2'-7 1/2"	3'-9 1/8"	1300
OFFICE	11'-6"	1'-7 3/8"	2'-4"	12'-7"	2'-7 1/2"	2'-7 1/2"	1000
OFFICE	11'-2"	1'-7 3/8"	2'-4"	12'-3"	2'-7 1/2"	2'-7 1/2"	1000
DISTRICT (REGULAR)	11'-6"	2'-9 3/8"	2'-4"	12'-7"	2'-7 1/2"	3'-9 3/8"	1400
DISTRICT (REGULAR)	11'-2"	2'-9 3/8"	2'-4"	12'-3"	2'-7 1/2"	3'-9 3/8"	1400
DISTRICT PART MECH. PWR.	11'-6"	3'-9 1/2"	2'-4"	12'-7"	2'-7 1/2"	4'-9 3/8"	2100
DISTRICT (A POS)	11'-6"	3'-2 1/8"	2'-4"	12'-7"	2'-7 1/2"	4'-2 1/8"	1500
FINAL	11'-6"	2'-0 1/4"	2'-4"	12'-7"	2'-7 1/2"	3'-0 1/4"	1350
FINAL	11'-2"	2'-0 1/4"	2'-4"	12'-3"	2'-7 1/2"	3'-0 1/4"	1350
MAKE BUSY	11'-6"	2'-2 1/2"	1'-8"	12'-7"	1'-11 1/2"	3'-2 1/2"	1000
MAKE BUSY	11'-2"	2'-2 1/2"	1'-8"	12'-3"	1'-11 1/2"	3'-2 1/2"	1000
B SENDER AND SENDER SELECTOR	11'-6"	6'-3"	2'-10"	12'-7"	3'-1 1/2"	7'-3 1/4"	3500
B SENDER AND SENDER SELECTOR	11'-2"	6'-3"	2'-10"	12'-3"	3'-1 1/2"	7'-3 1/4"	3500
SUBS. SENDER (CROSS PART CASE)	11'-6"	6'-5 3/4"	2'-10"	12'-3"	3'-1 1/2"	7'-6"	2500
SUBS. SENDER (CROSS PART CASE)	11'-2"	6'-5 3/4"	2'-10"	12'-3"	3'-1 1/2"	7'-6"	2500
LOCAL SENDER (CROSS PART CASE)	11'-6"	5'-3"	2'-10"	12'-7"	3'-1 1/2"	6'-3 3/4"	2000
LOCAL SENDER (CROSS PART CASE)	11'-2"	5'-3"	2'-10"	12'-3"	3'-1 1/2"	6'-3 3/4"	2000
A POS SENDER AND SENDER SELECTOR 3 POS	11'-6"	2'-6 3/4"	2'-4"	12'-7"	2'-7 1/2"	3'-6 3/4"	1500
A POS SENDER AND SENDER SELECTOR 3 POS	11'-2"	2'-6 3/4"	2'-4"	12'-3"	2'-7 1/2"	3'-6 3/4"	1500
A POS SENDER AND SENDER SELECTOR 3 POS	11'-6"	4'-0 3/4"	2'-10"	12'-7"	3'-1 1/2"	5'-10 3/8"	2000
A POS SENDER AND SENDER SELECTOR 3 POS	11'-2"	4'-0 3/4"	2'-10"	12'-3"	3'-1 1/2"	5'-10 3/8"	2000
SENDER SELECTOR 3 POS	11'-2"	4'-0 3/4"	2'-10"	12'-3"	3'-1 1/2"	5'-10 3/8"	2000
LINE FINDER	11'-2"	1'-4 1/2"	2'-4"	12'-3"	2'-7 1/2"	2'-1 1/2"	1500
LINE FINDER	11'-6"	1'-4 1/2"	2'-4"	12'-7"	2'-7 1/2"	2'-1 1/2"	1500
TRANSLATOR LAMP PANEL	12'-0"	2'-1"	2'-10"	13'-4"	3'-1 1/2"	3'-1 1/2"	1000
MISC. POWER DRIVEN APP.	11'-2"	1'-11"	2'-4"	12'-3"	2'-7 1/2"	2'-1 1/2"	1000

NOTE: DRIVE PULLEY BARS ETC. * REMOVAL OF CLERKS WILL REDUCE THESE DIMENSIONS 1/8". SHIPPED SEPARATE FOR PRESENT. † FRAME ASSEMBLED IN 2 PARTS.

DIMENSIONS & SHIPPING WEIGHT ES-225093 WESTERN ELECTRIC CO. INC. OF PACKING CASES ISSUE: [] PACKING CASE DATA SHEET #1

NOTE: DRIVE, MOLT BRINGS ETC. SHIPPED SEPARATE FOR PRESENT * REMOVAL OF CLERKS WILL REDUCE THESE DIMENSIONS 1 1/8" ± FRAME ASSEMBLED IN 2 PARTS.

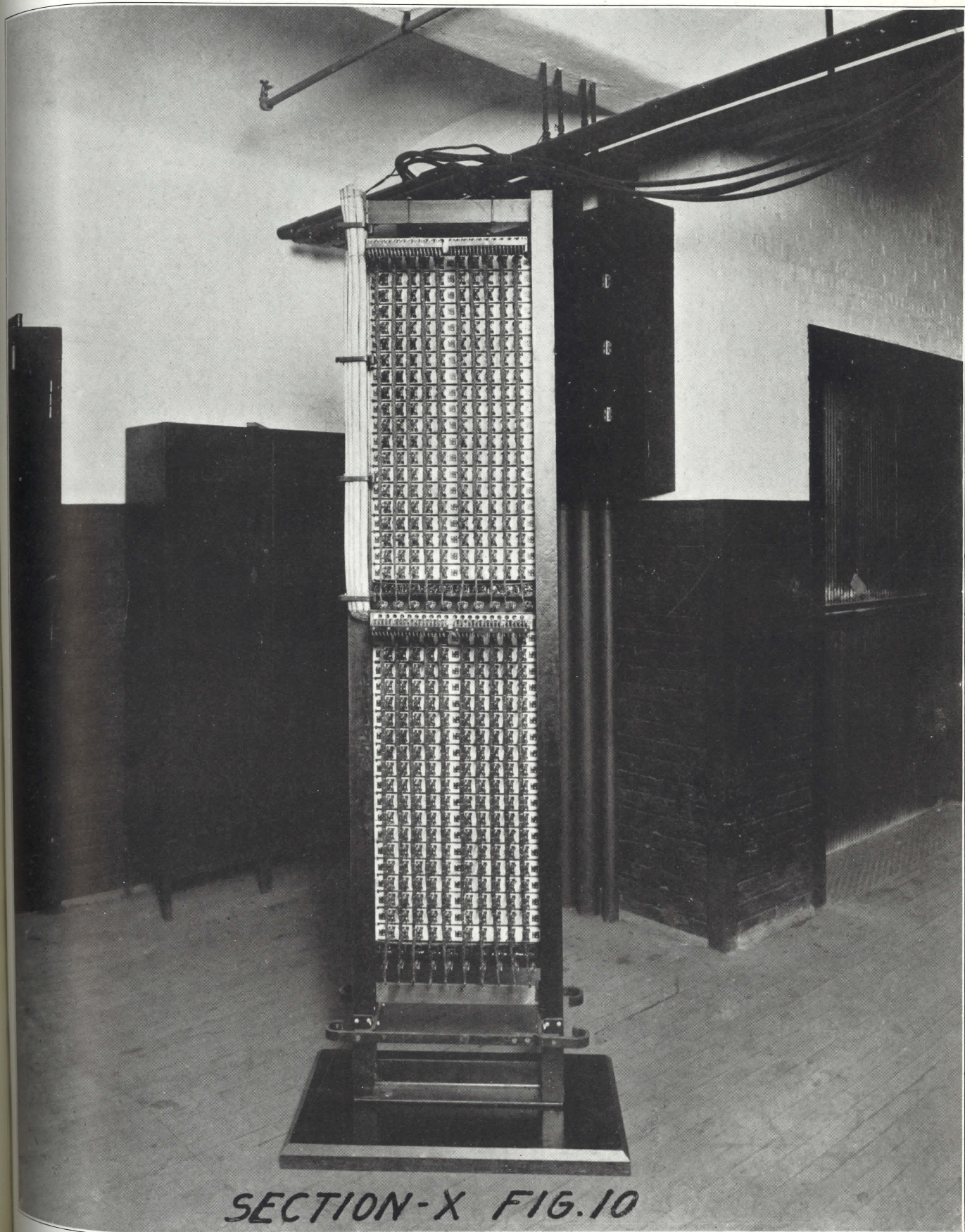
DIMENSIONS & SHIPPING WEIGHT OF PACKING CASES ES-225093 WESTERN ELECTRIC CO. INC. PACKING CASE DATA SHEET #1



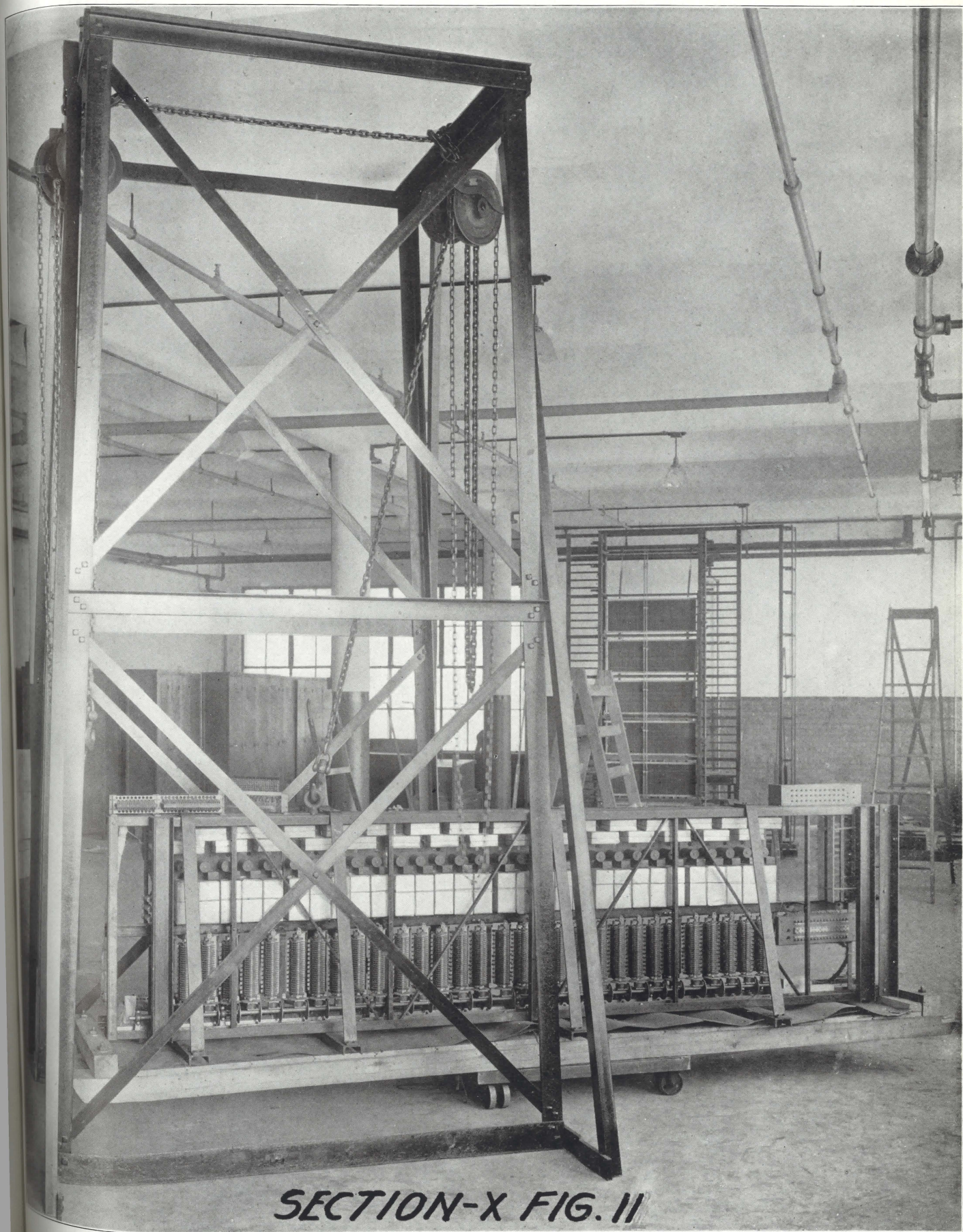
DIMENSIONS & SHIPPING WEIGHT OF PACKING CASES ES-225093 WESTERN ELECTRIC CO. INC. PACKING CASE DATA SHEET #2

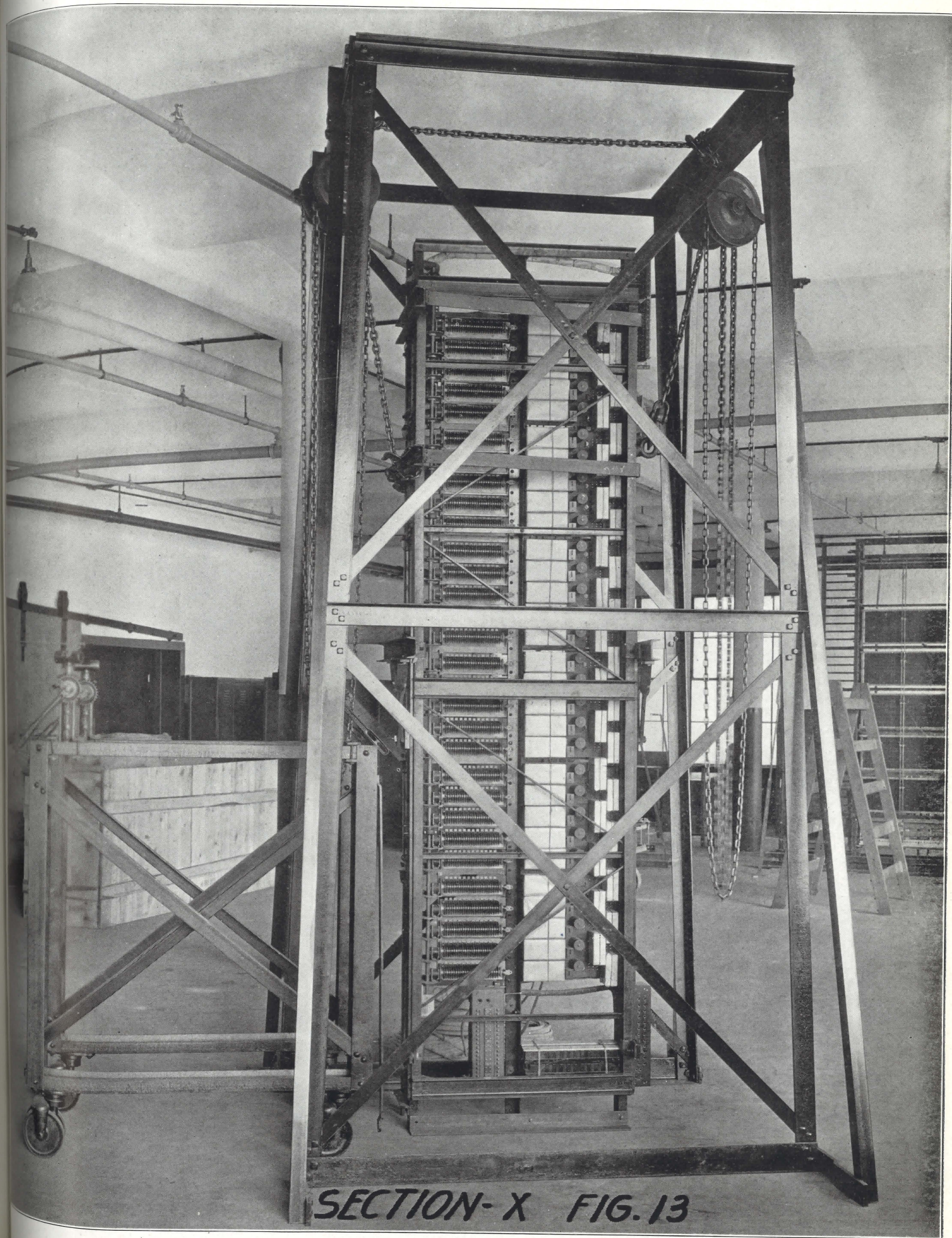
SECTION-X

FIG-9



SECTION-X FIG.10







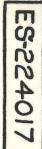
SECTION-X FIG.14

Section XI
Power Equipment

DATE FOR LEAD		LEAD	DATE FOR LEAD
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11			
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99			
100			

ALLOWABLE VOLTAGE DROPS	
LEADS BATT+H+P+J	2.25
LEADS C+T+H+P+K	2.25
LEADS C+D+ENG	1.75

METER	SCALES
A-1	
A-2	
A-3	



SECTION XI
FIG 1

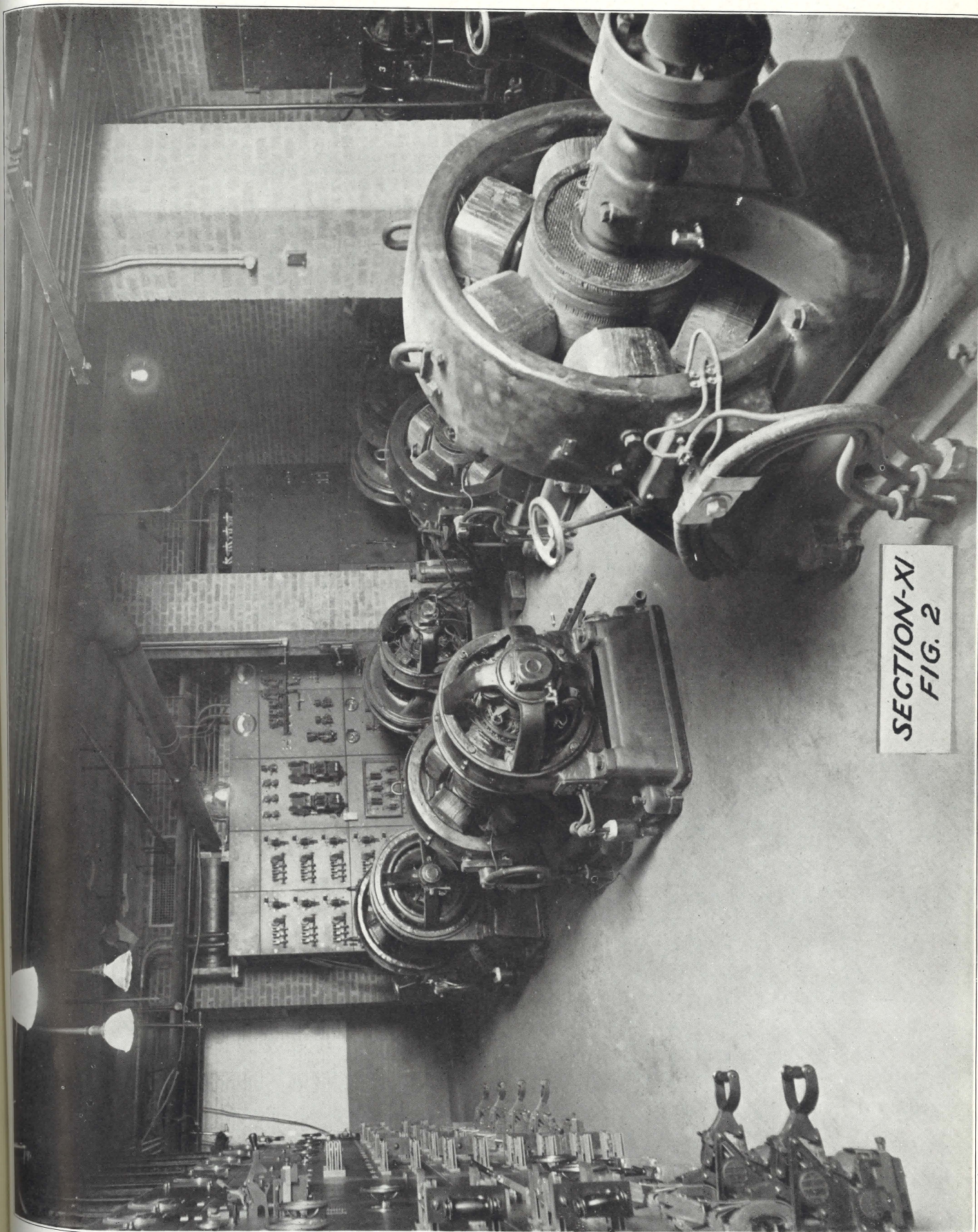
NOTE: CHARGE LEADS TO DE THAN FROM ONE EXTREME PANEL OR POWER SO. WAGNEBER IS NEARER THE BATTERY FUSE PANEL

SCHEMATIC
POWER CHARGING CIRCUIT
FOR USE WITH DUPLEX MOTORS AND
SEPARATE CHG. & DISCHG. BATT. LEADS
FULL MECHANICAL POWER DRIVEN SYSTEM

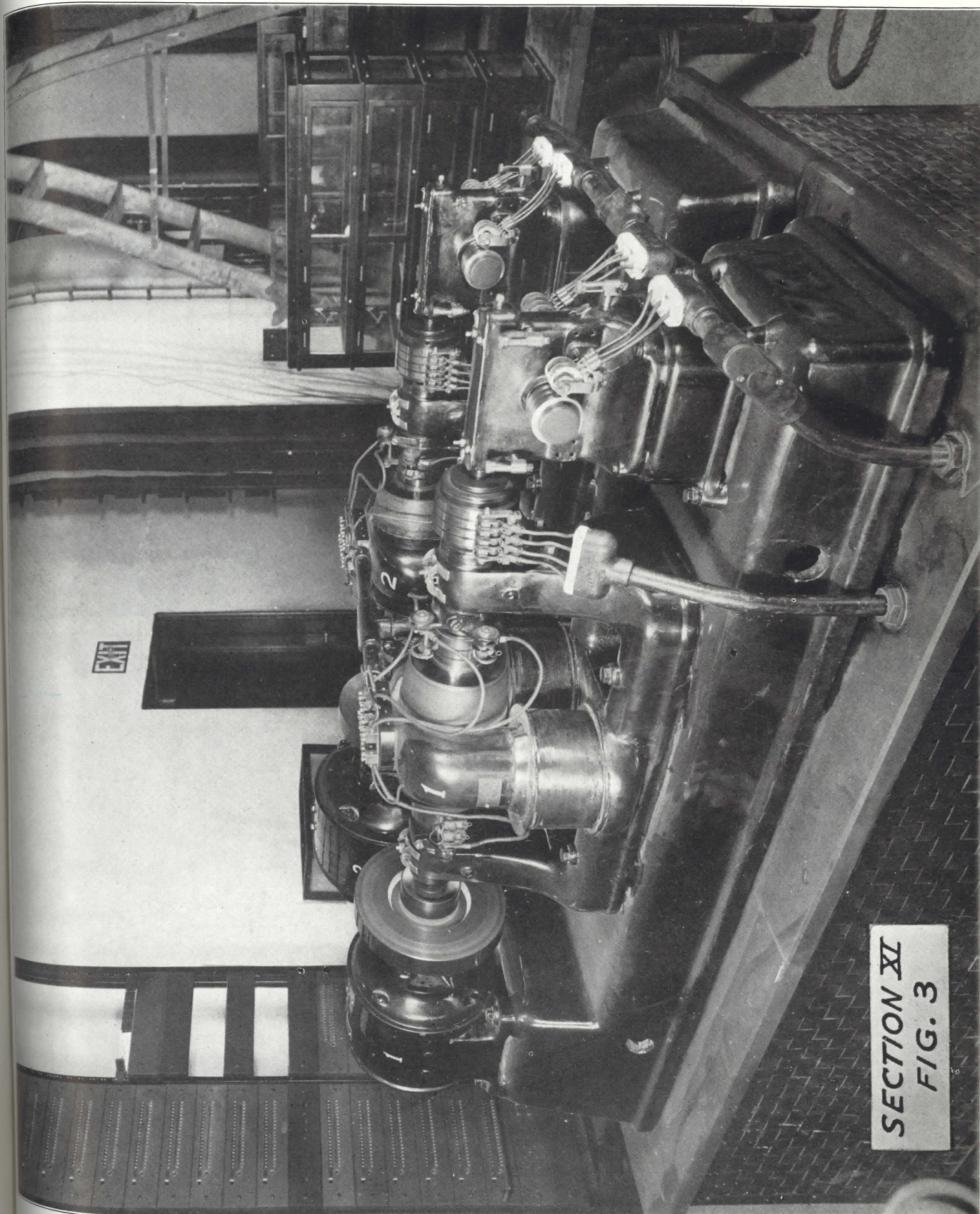
—

APPROVED **1958**
DRAWN BY **WILLIAM CHICKER** BY **ASH**
CHECKED BY **WILLIAM CHICKER** BY **ASH**

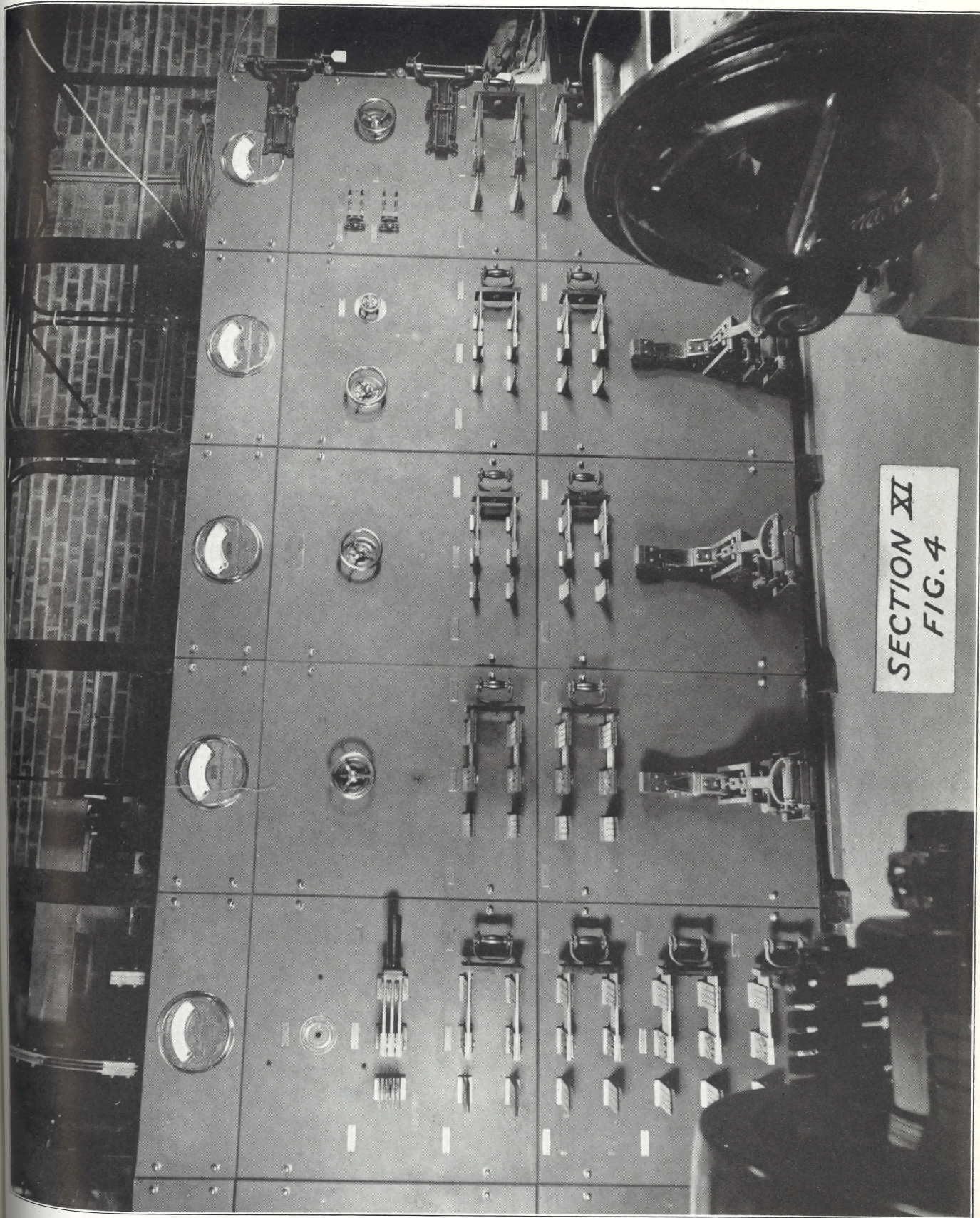
Western Electric Company, Incorporated **M. Y. Eng. Dept.**



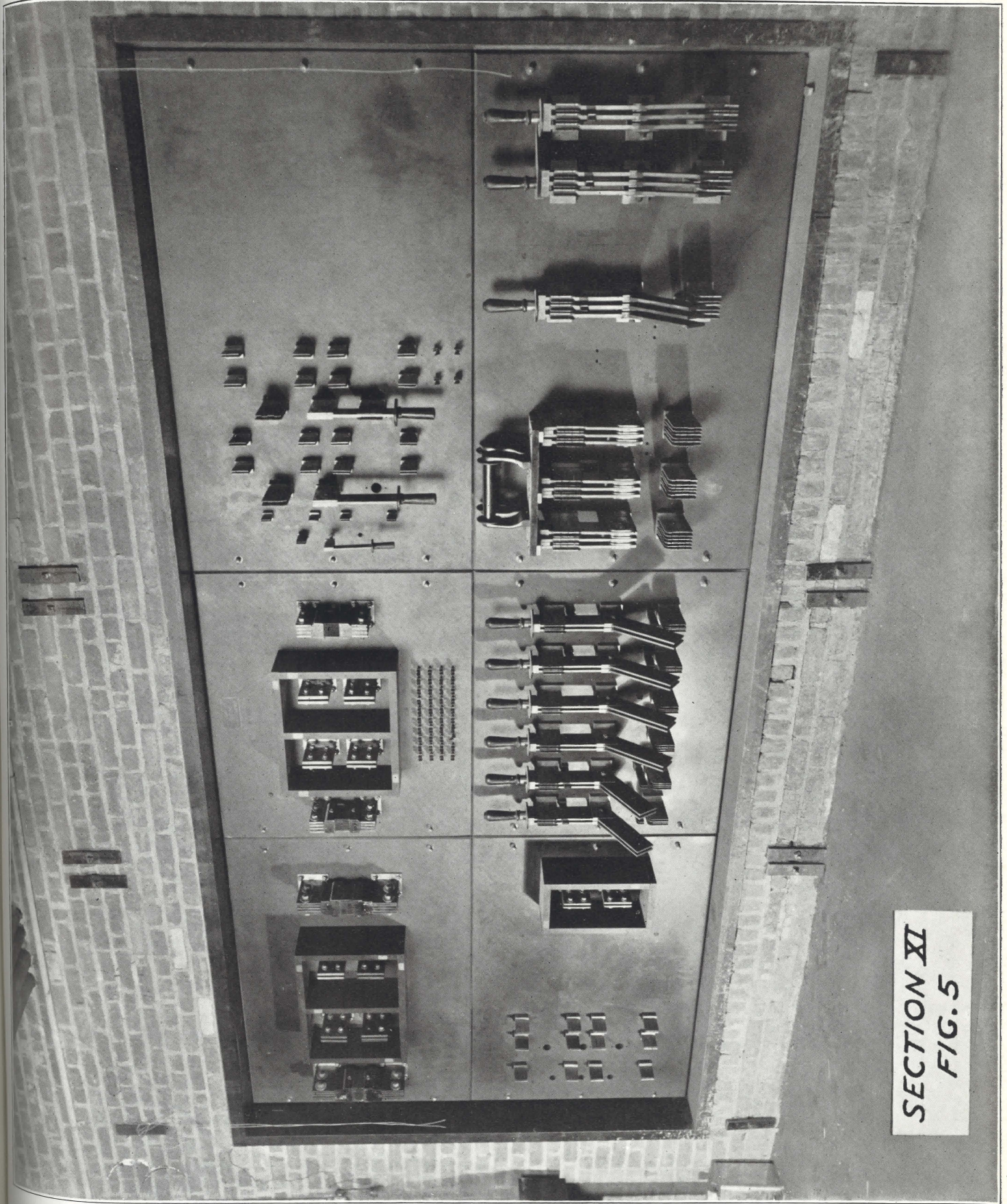
SECTION-XI
FIG. 2



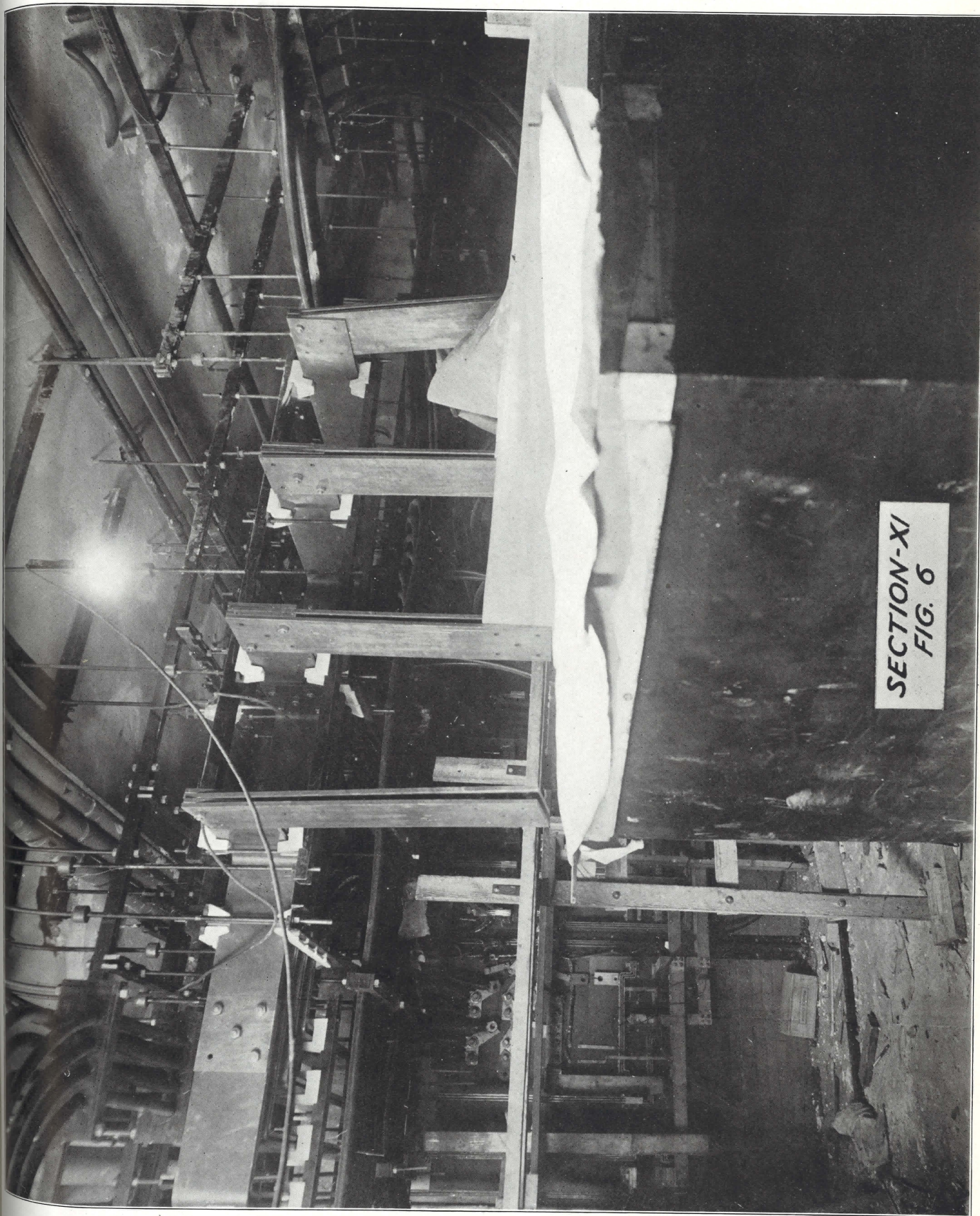
SECTION XI
FIG. 3



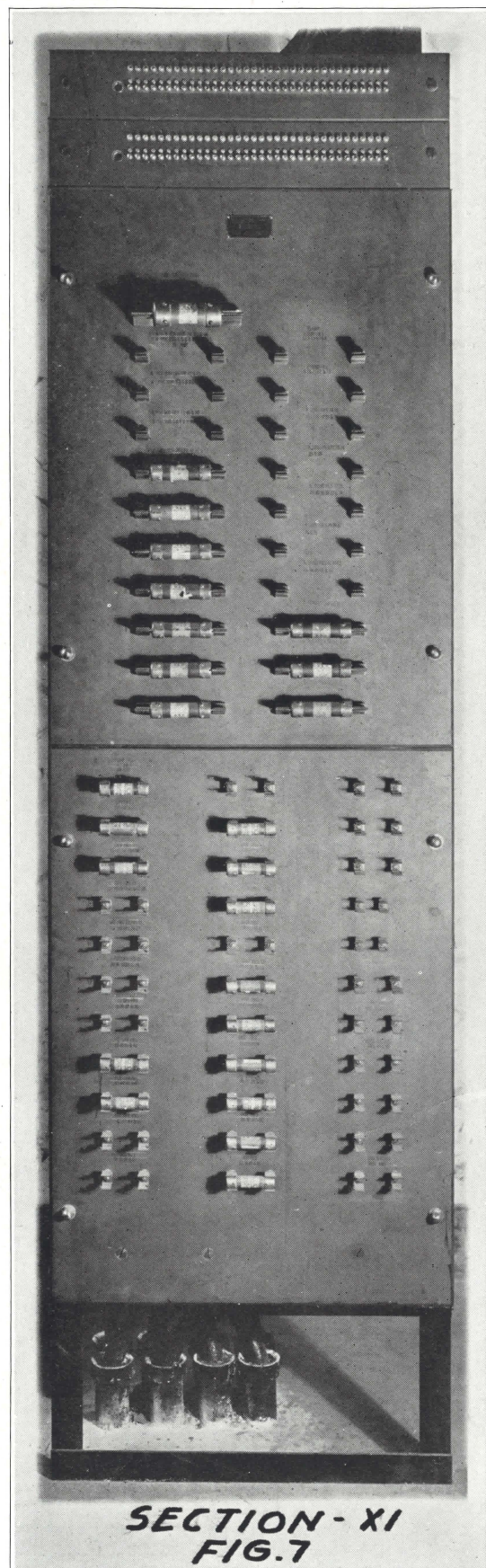
SECTION XI
FIG. 4



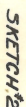
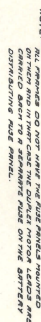
SECTION XI
FIG. 5



SECTION-XI
FIG. 6



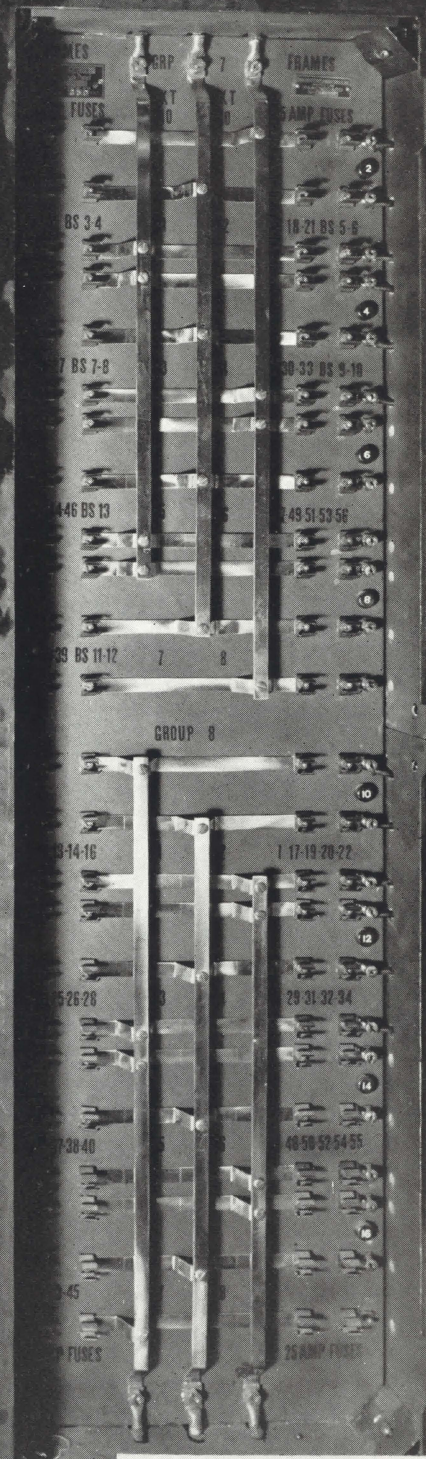
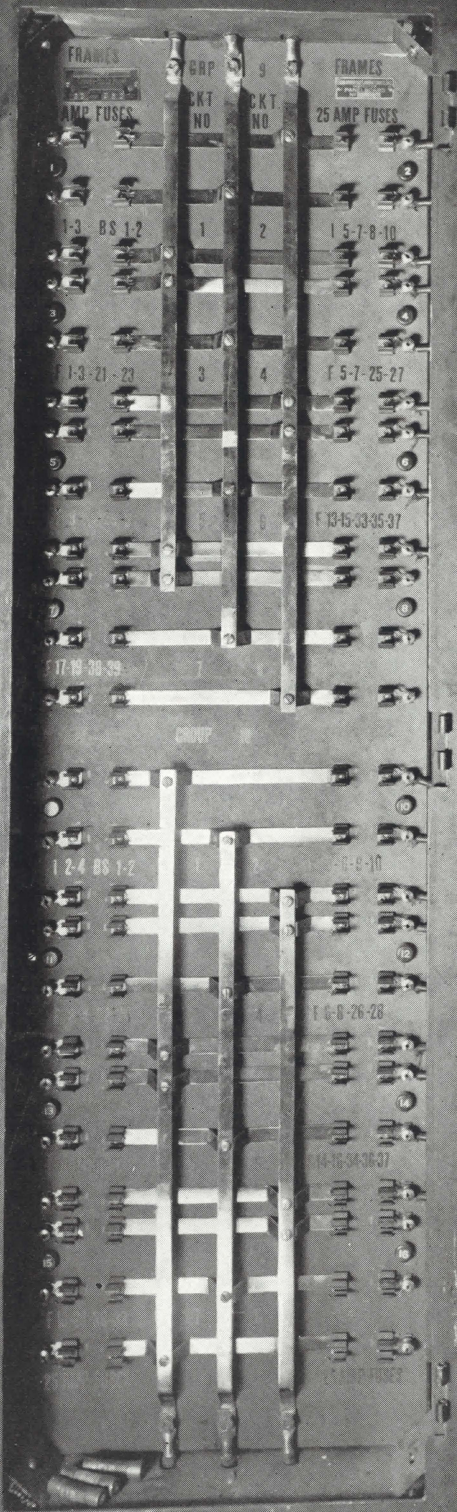
SECTION - XI
FIG. 7



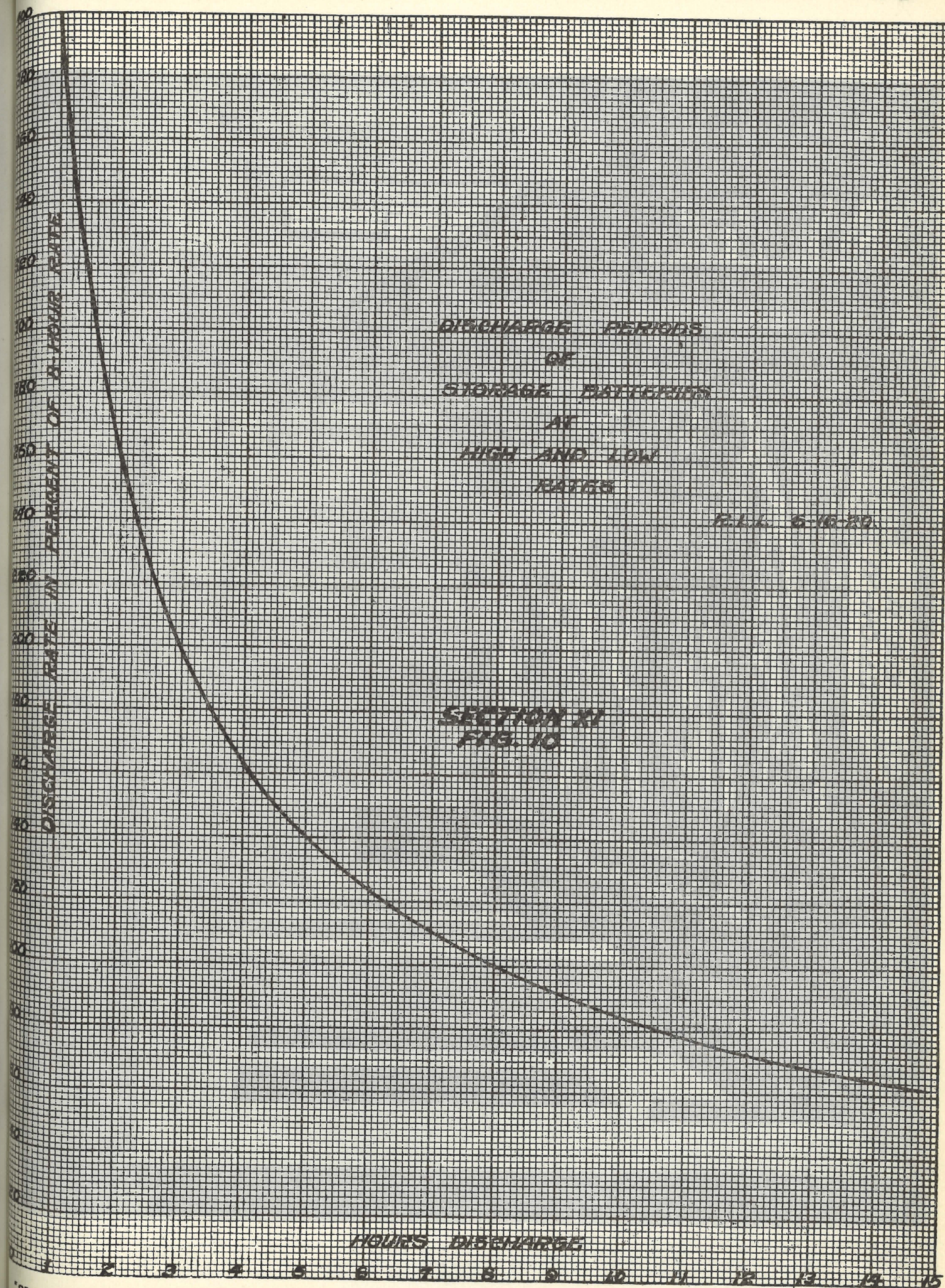
ES-249202

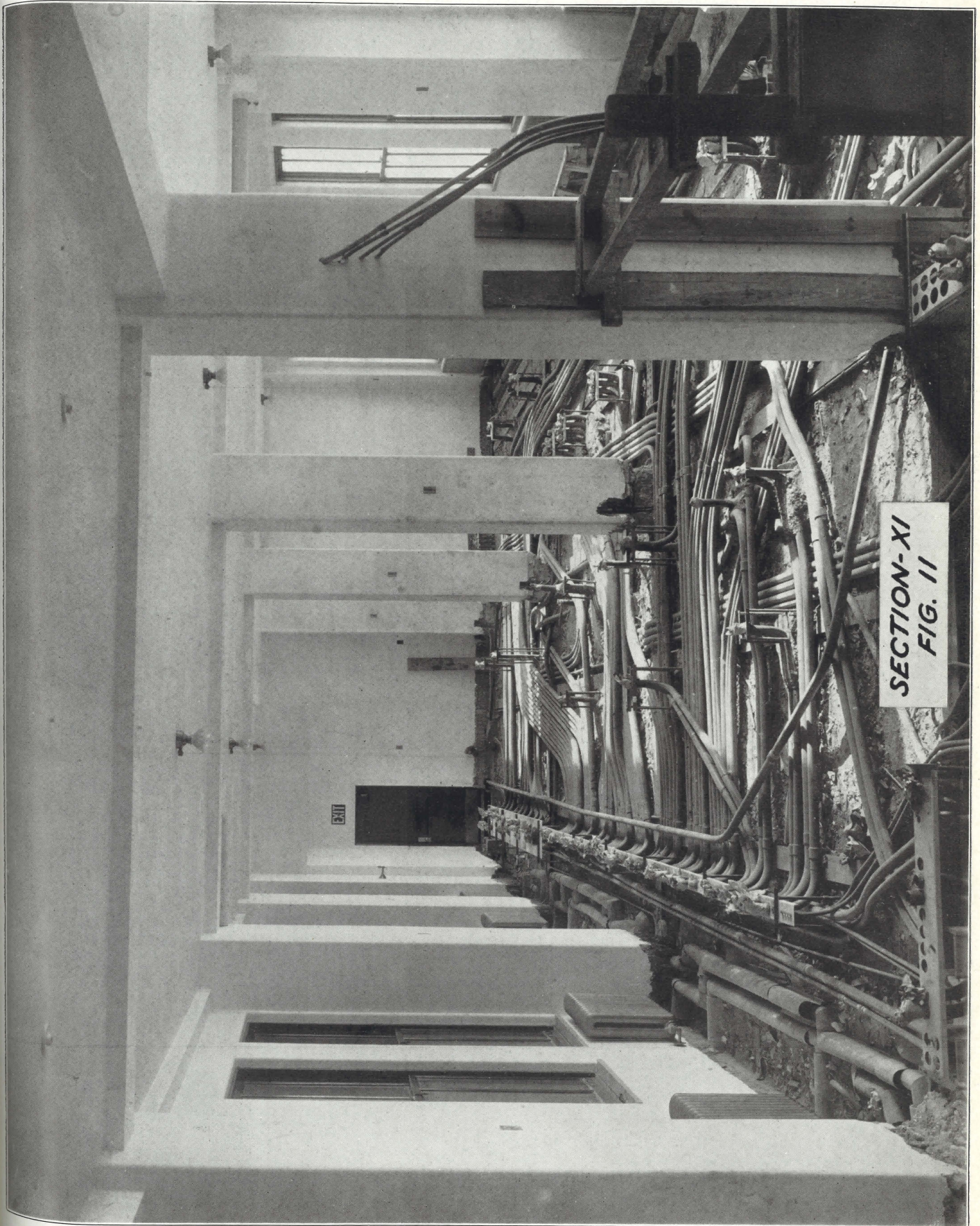
APPROVED	<i>[Signature]</i>	☒	☐	DRAWN BY CCH
		☒	☐	CHECKED BY BLK

WESTERN ELECTRIC CO., INC., N.Y. ENG. DEPT



SECTION XI
FIG. 9

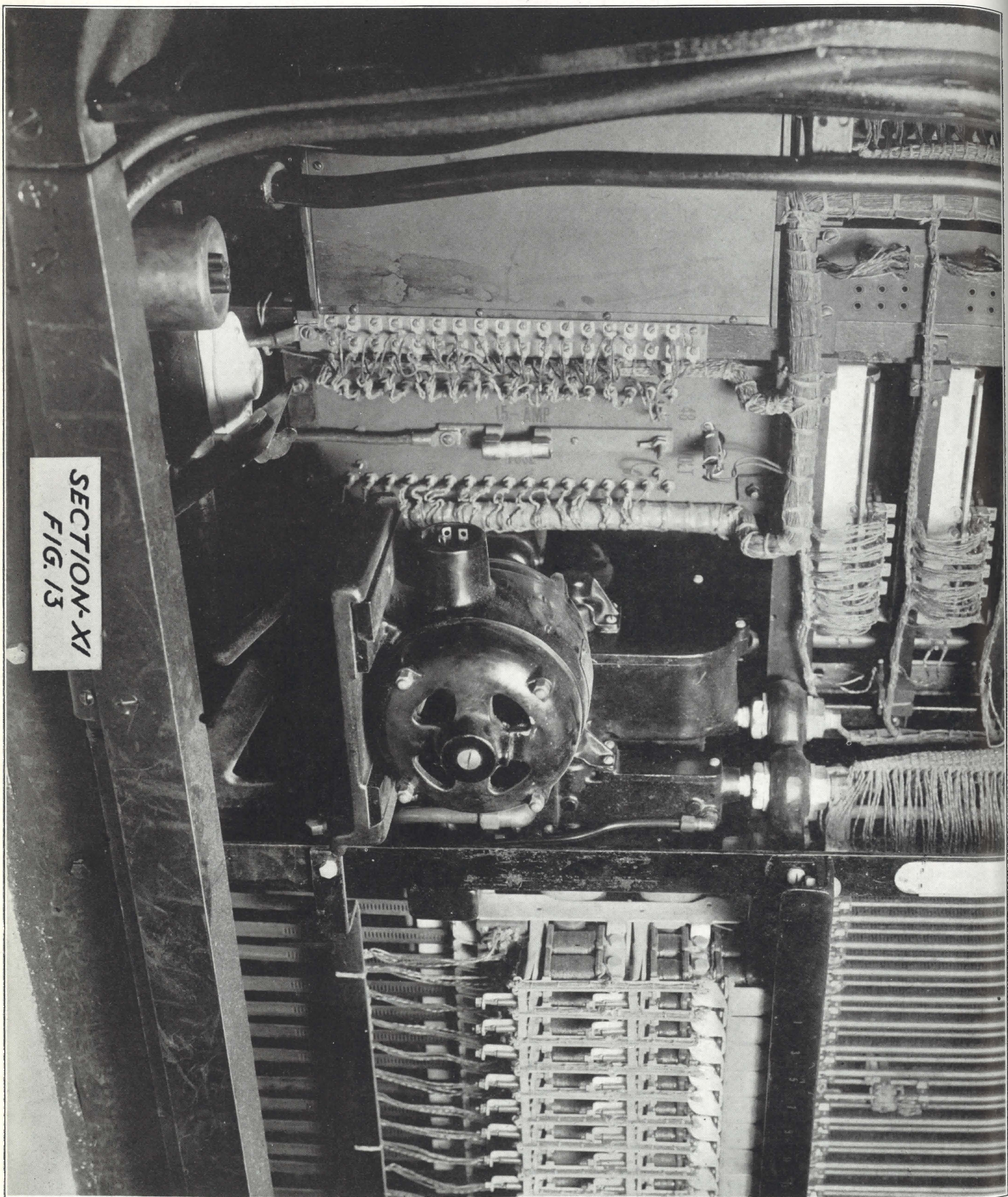




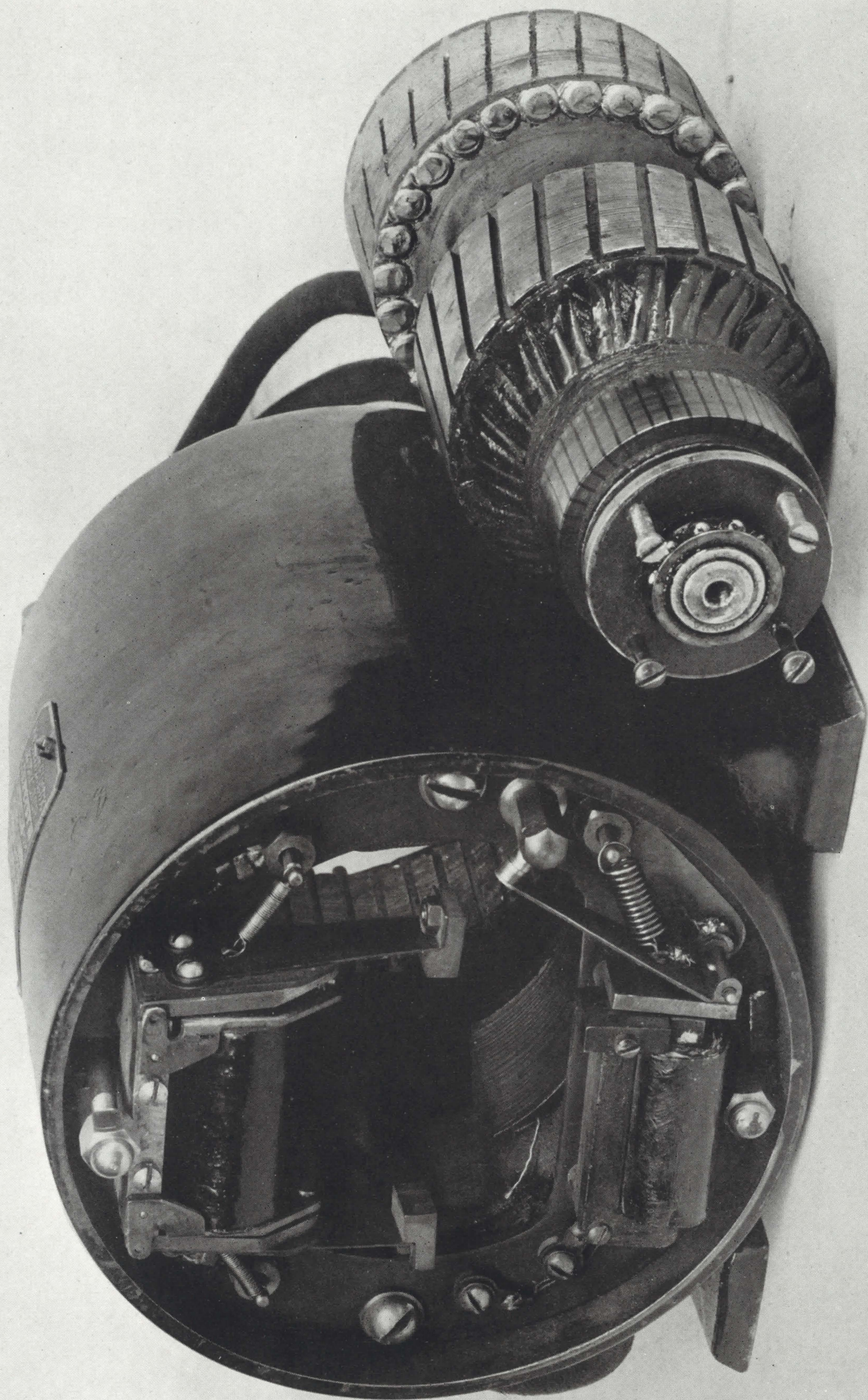
SECTION-XI
FIG. 11



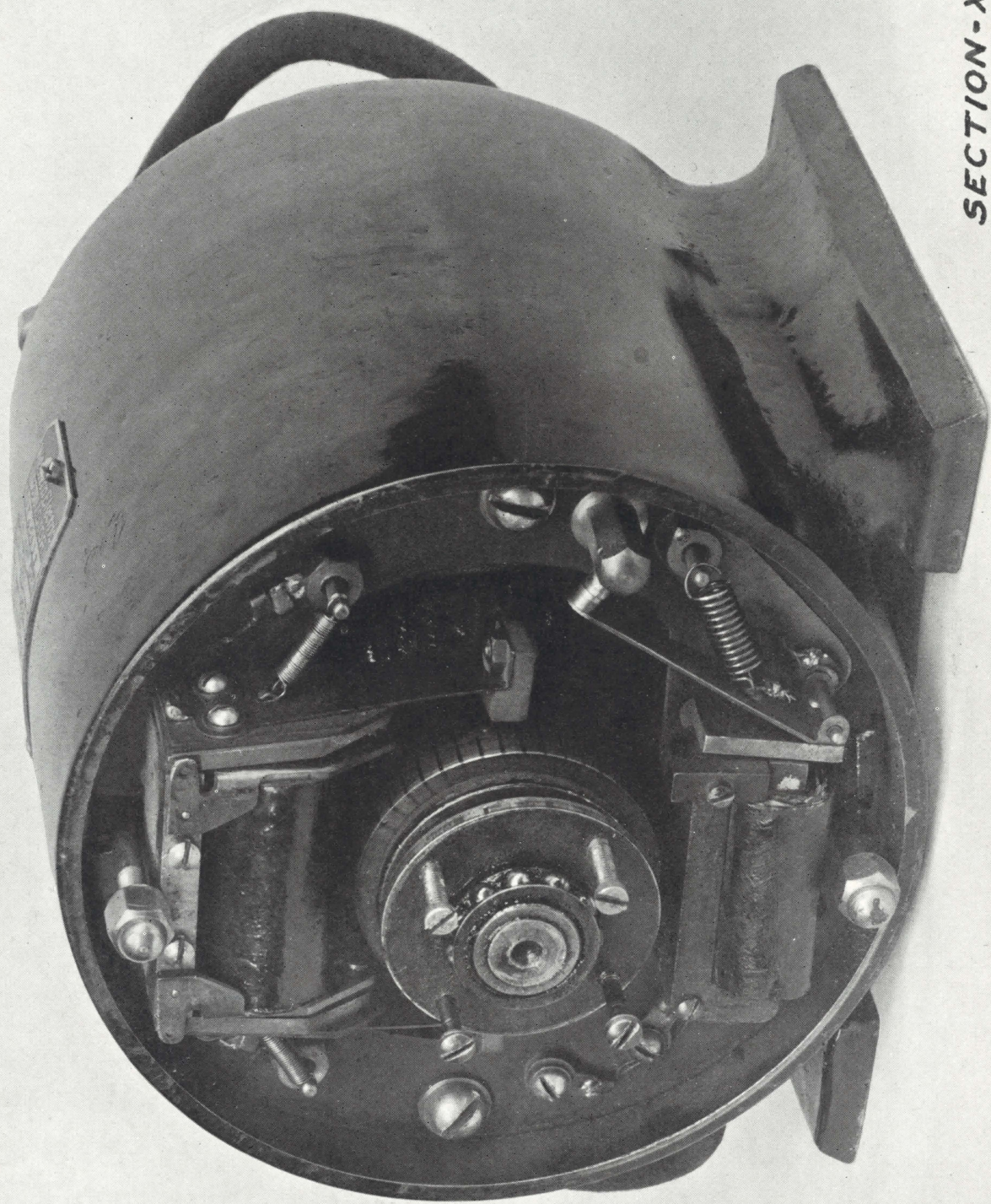
SECTION-XI
FIG. 12



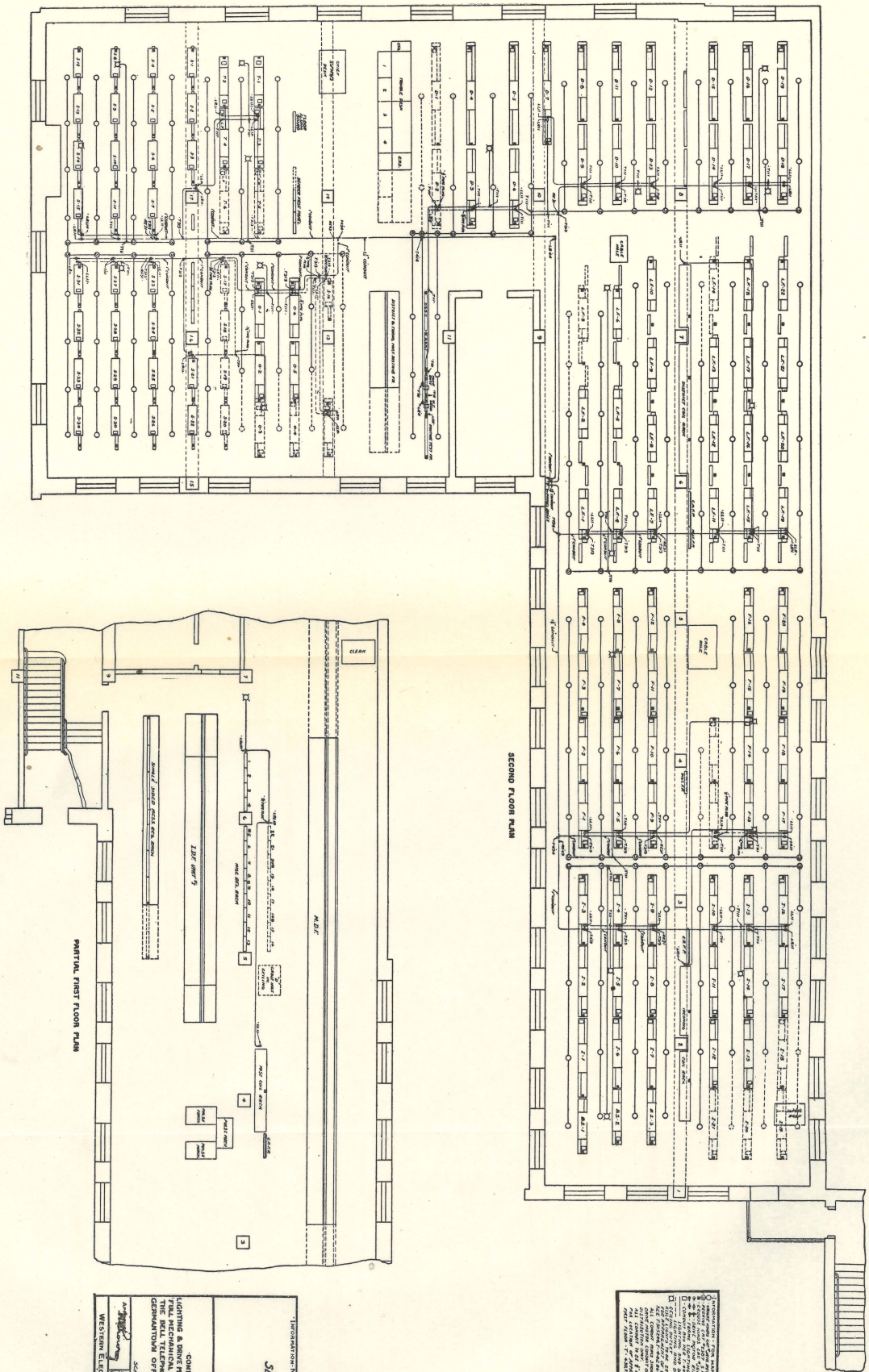
SECTION-X1
FIG. 13



SECTION-XI
FIG. 14



SECTION-XI
FIG. 15



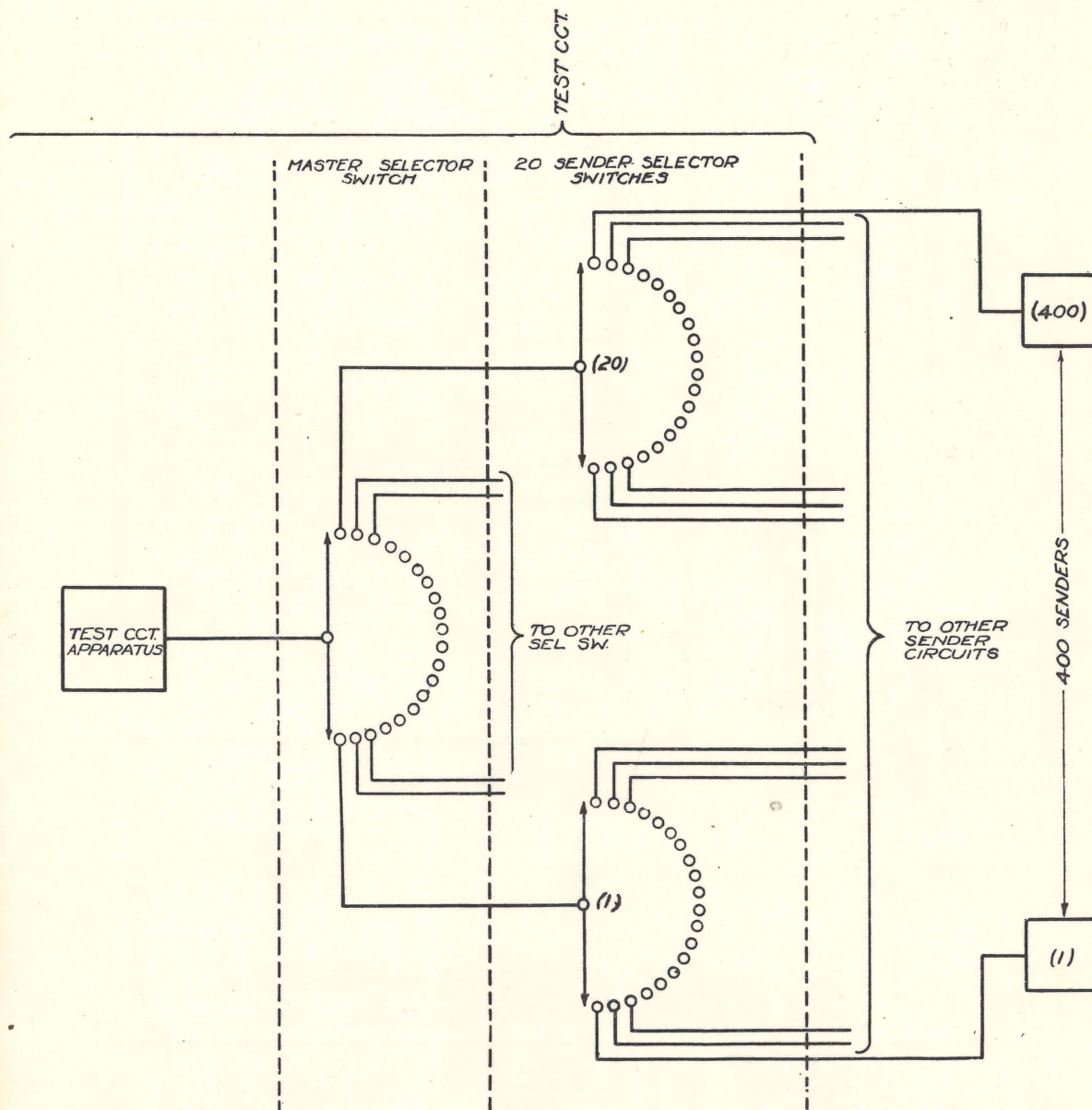
SECOND FLOOR PLAN

PARTIAL FIRST FLOOR PLAN

CONSTRUCTION OF 2ND FLOOR ELECTRICAL POWER SYSTEM
 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS.
 2. ALL ELECTRICAL WORK SHALL BE DONE BY A LICENSED ELECTRICIAN.
 3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 4. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT DRAWINGS.
 5. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SCHEDULE.

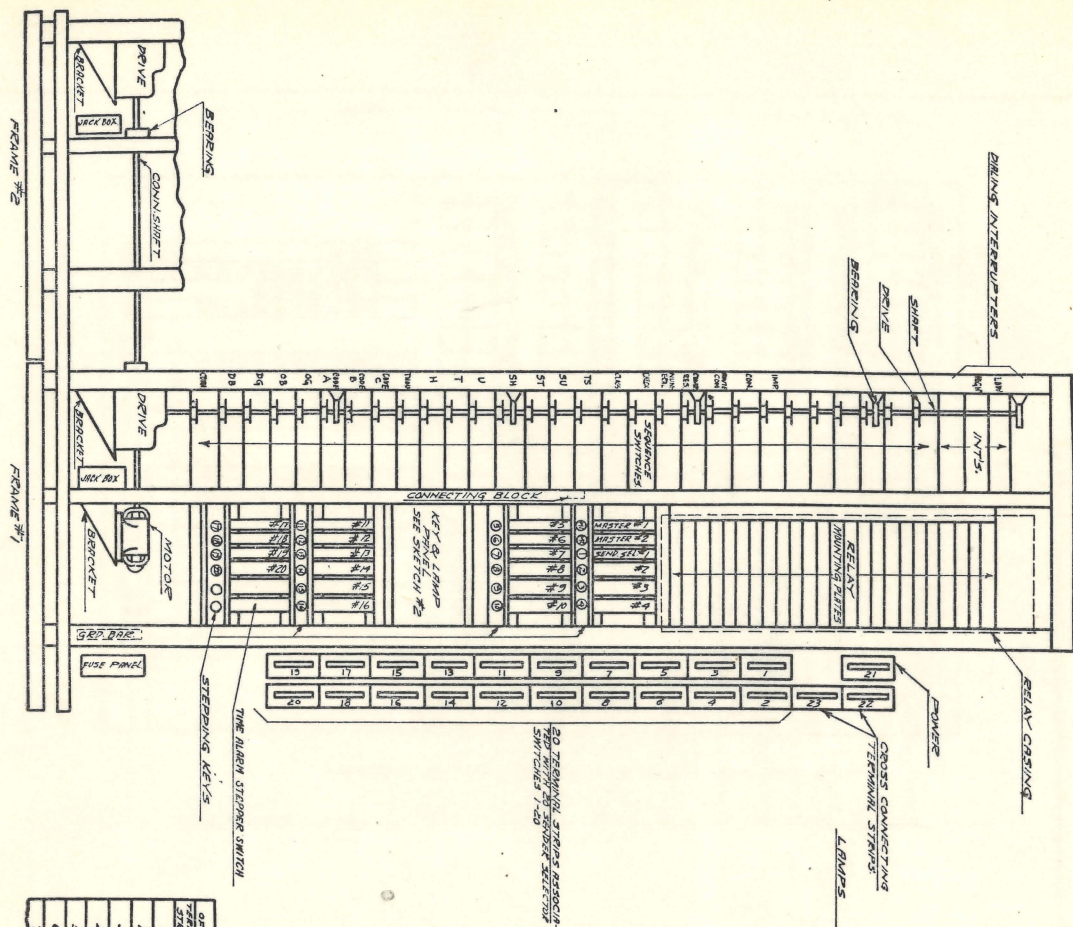
SECTION XI
 FIG 16
 LIGHTING & BRIDGE POWER UP & 2ND FLOOR
 ELECTRICAL POWER SYSTEM
 COMPANY OF PA
 PHILADELPHIA
 SCALE 1/4" = 1'-0"
 WESTERN ELECTRIC COMPANY, INC.
 T-506135
 U

Section XII
Routine Testing Equipment



SECTION XII
FIG #1

INFORMATION DRAWING
SHOWING SCHEMATIC ARRANGEMENT
FOR SELECTING ANY ONE OF 400 SENDERS
AUTOMATIC ROUTINE TEST OF SUBSCRIBERS SENDERS
FULL MECHANICAL POWER DRIVEN SYSTEM



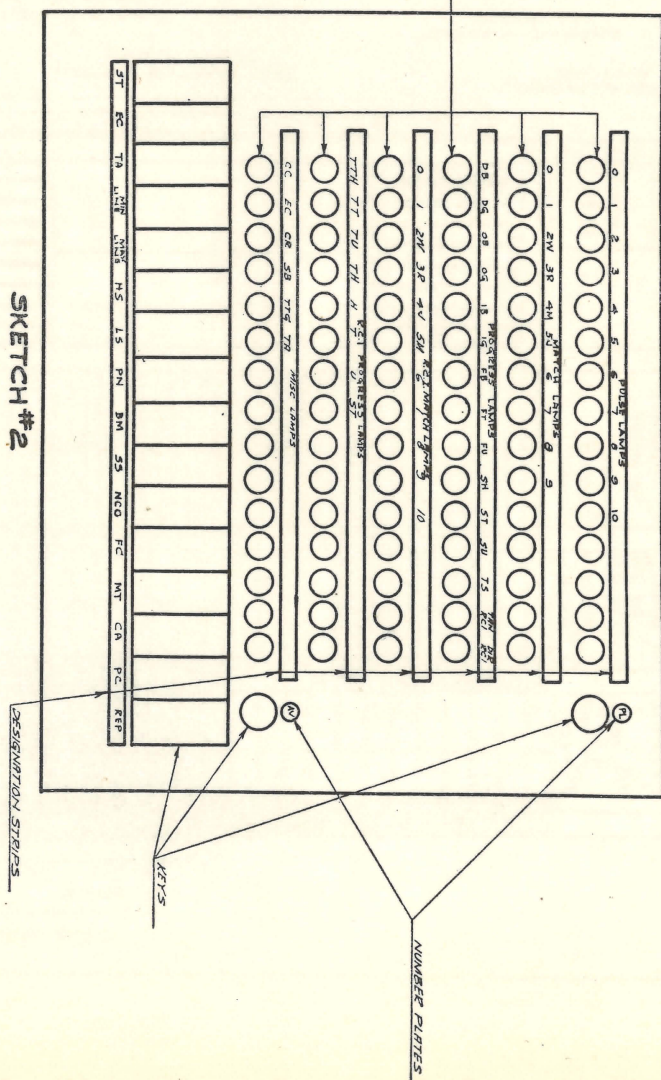
DATE RECEIVED		DATE RECEIVED		DATE RECEIVED	
YEAR	MONTH	YEAR	MONTH	YEAR	MONTH
1	1	1-2-78	1	1	1
2	2	5-6-78	2	2	2
3	3	9-10-78	3	3	3
4	4	13-14-78	4	4	4
5	5	17-18-78	5	5	5
6	6	21-22-78	6	6	6
7	7	25-26-78	7	7	7

E 5-249125

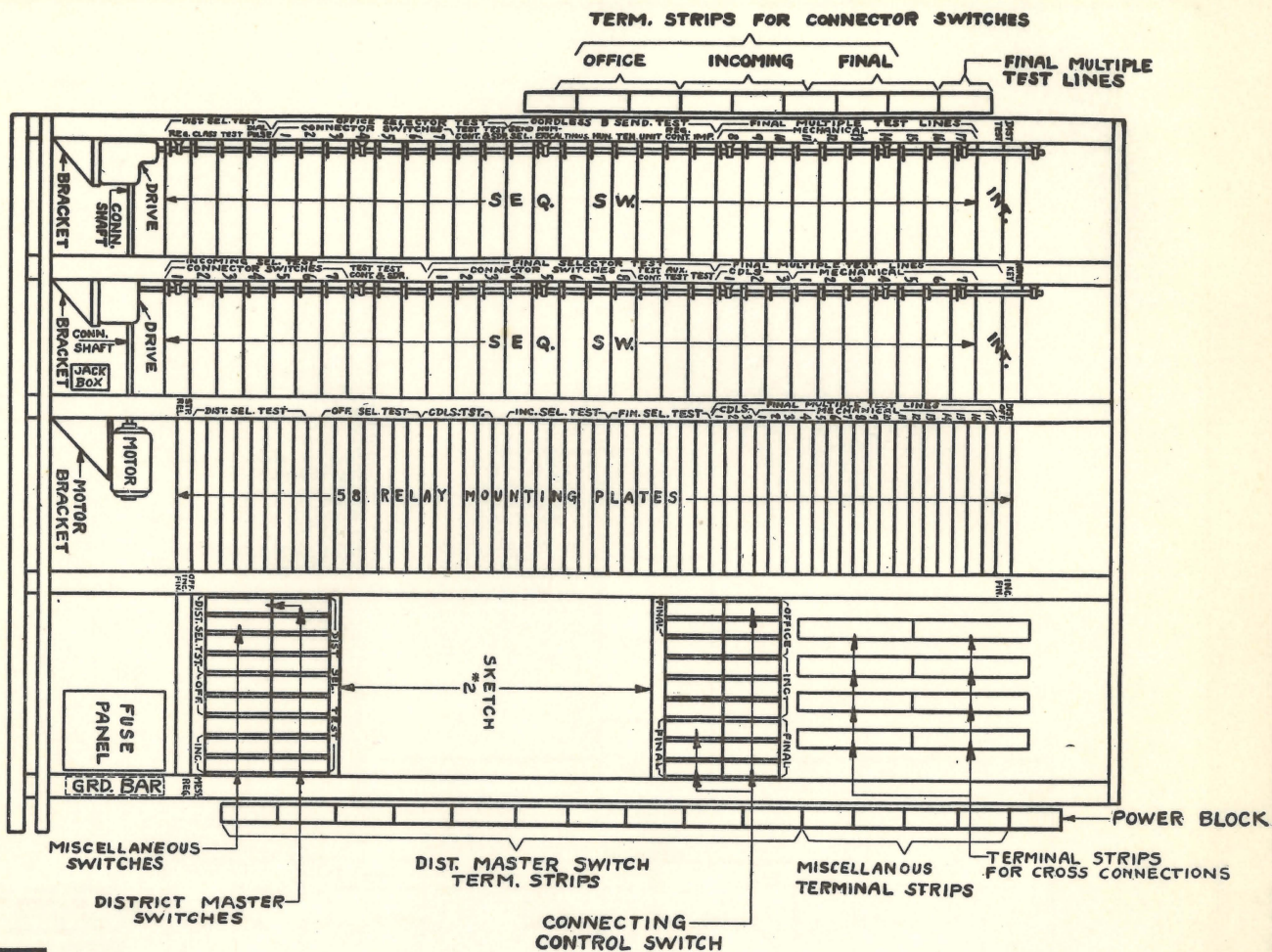
SKETCH #2

SECTION XII
F19-2

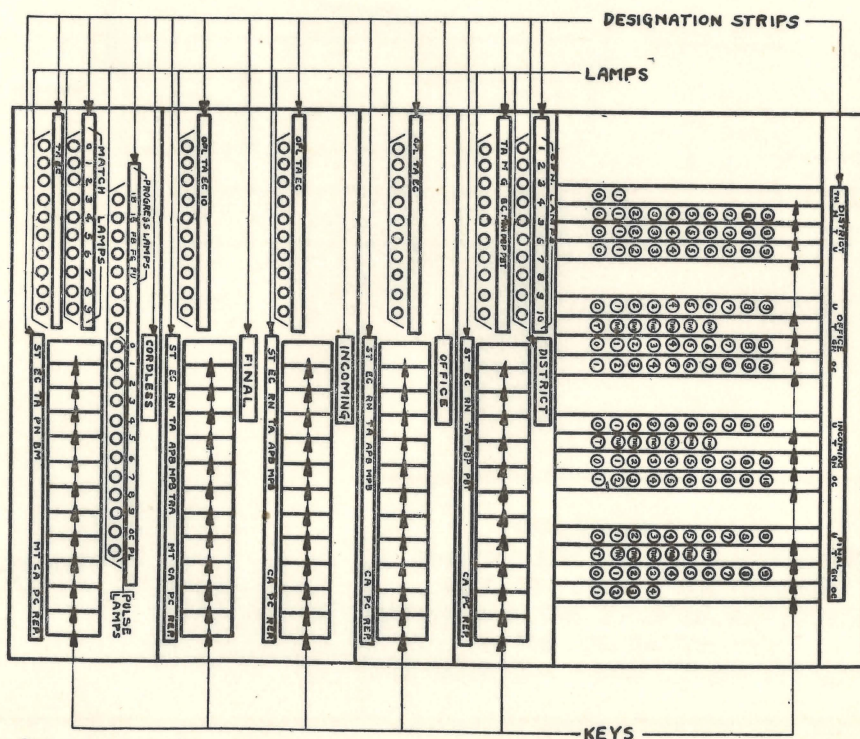
INFORMATION DRAWING
SHOWING EQUIPMENT ARRANGEMENT
OF
SUBSCRIBERS ROUTINE SENDER TEST FRAME
FULL MECHANICAL POWER DRIVEN SYSTEM.



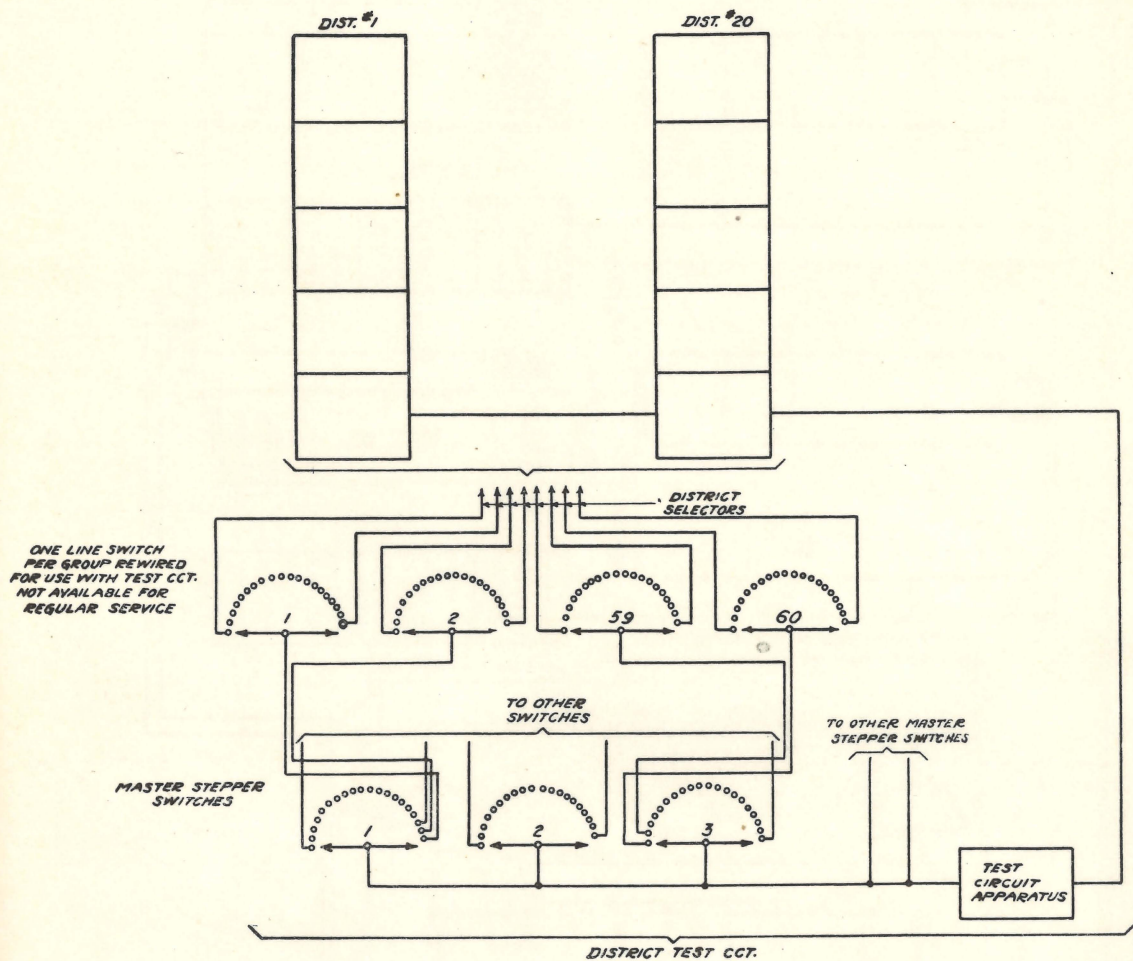
SKETCH #1



SKETCH #2

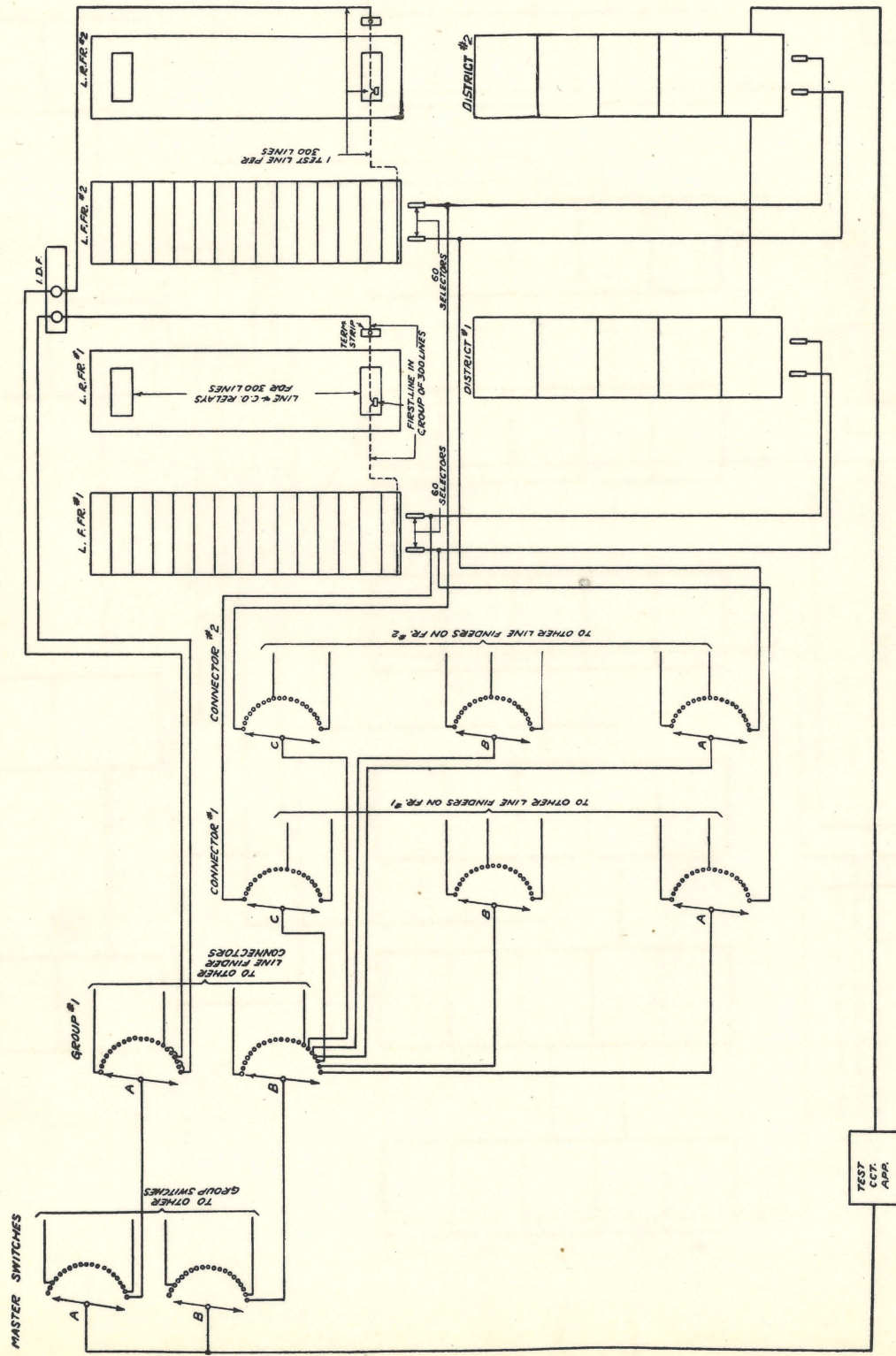


INFORMATION DRAWING
SHOWING EQUIPMENT ARRANGEMENT OF
ROUTINE SELECTOR TEST FRAME
FULL MECHANICAL POWER DRIVEN SYSTEM



SECTION XII
FIG. -4

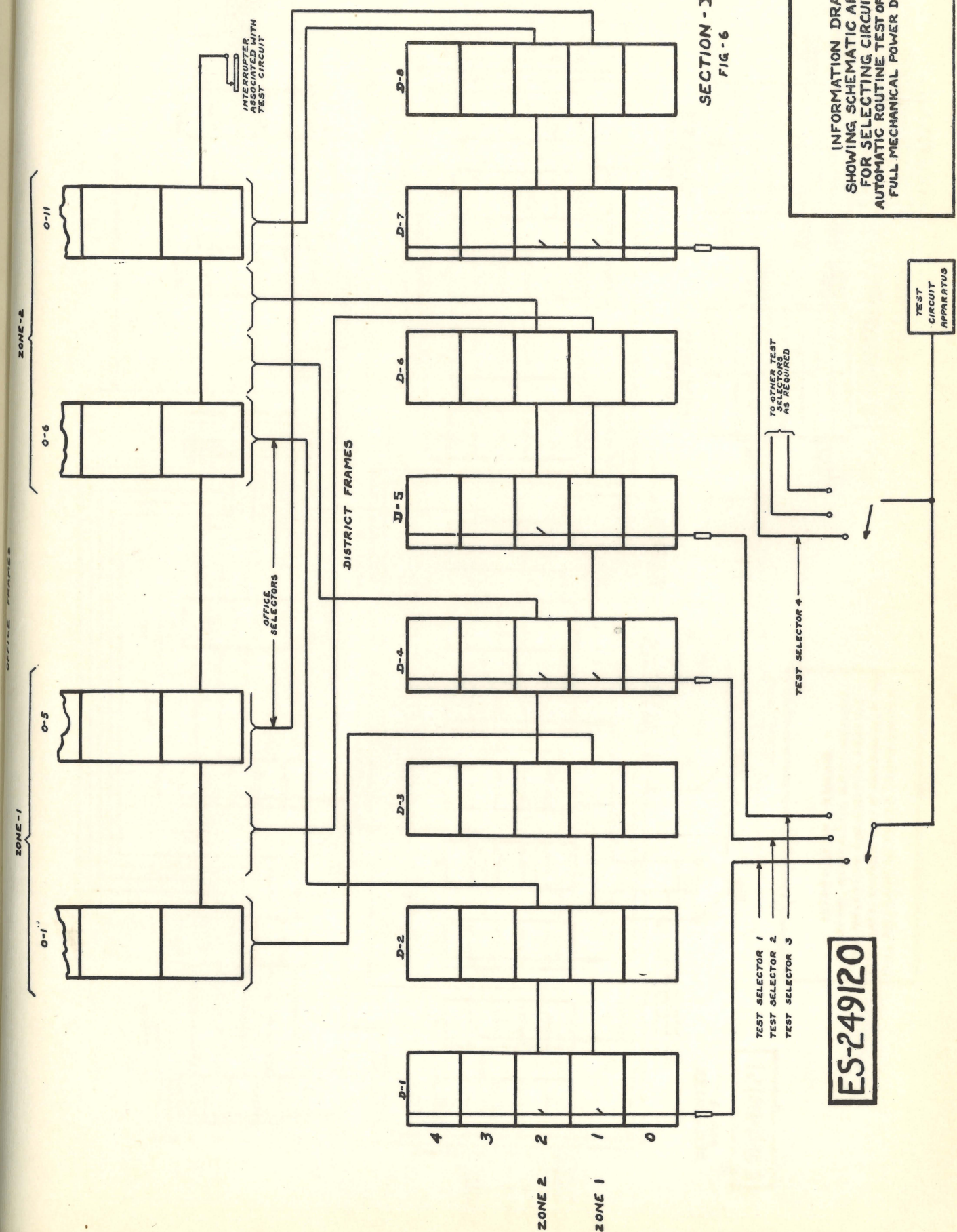
INFORMATION DRAWING
SHOWING SCHEMATIC ARRANGEMENT FOR
SELECTING CIRCUITS FOR TESTING.
AUTOMATIC ROUTINE TEST OF DISTRICT SELECTORS
OF THE LINE SWITCH TYPE.
FULL MECHANICAL POWER DRIVEN SYSTEM.



SECTION XII
FIG. #5

INFORMATION DRAWING FOR
SHOWING SCHEMATIC ARRANGEMENT FOR
SELECTING CIRCUITS FOR TESTING.
AUTOMATIC ROUTINE TEST OF DISTRICT SELECTORS
OF THE LINE FINDER TYPE.
FULL MECHANICAL POWER DRIVEN SYSTEM.

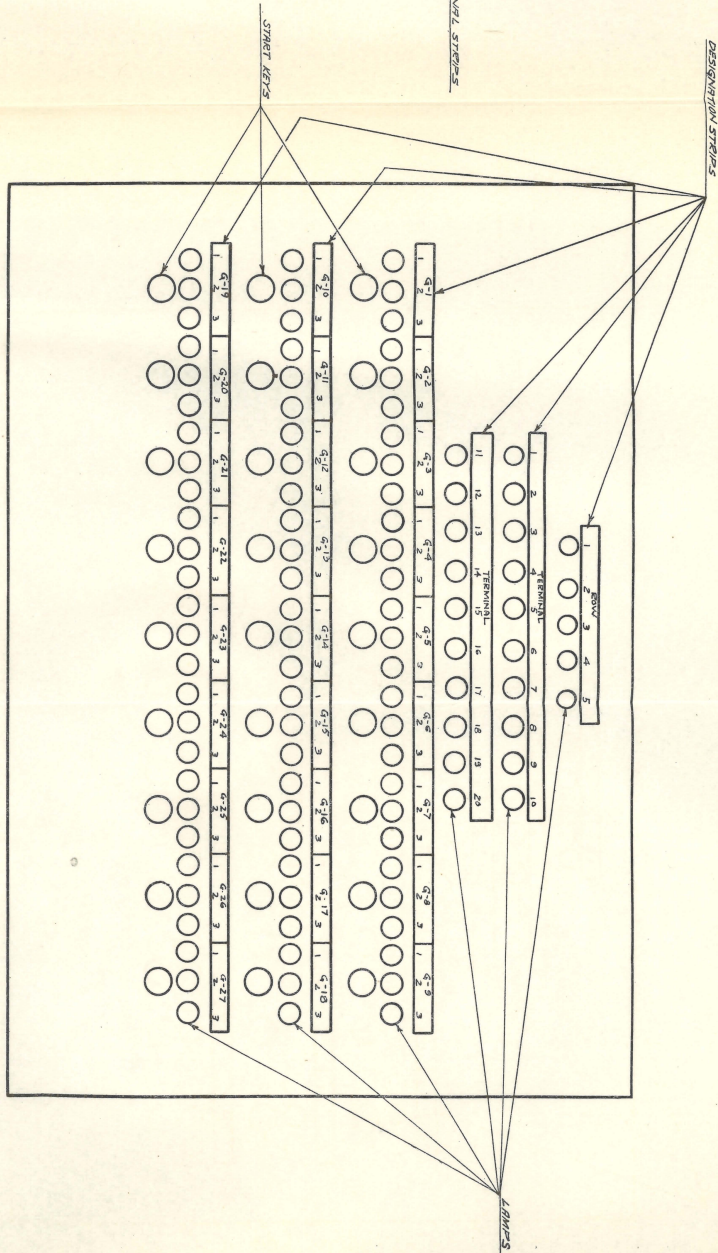
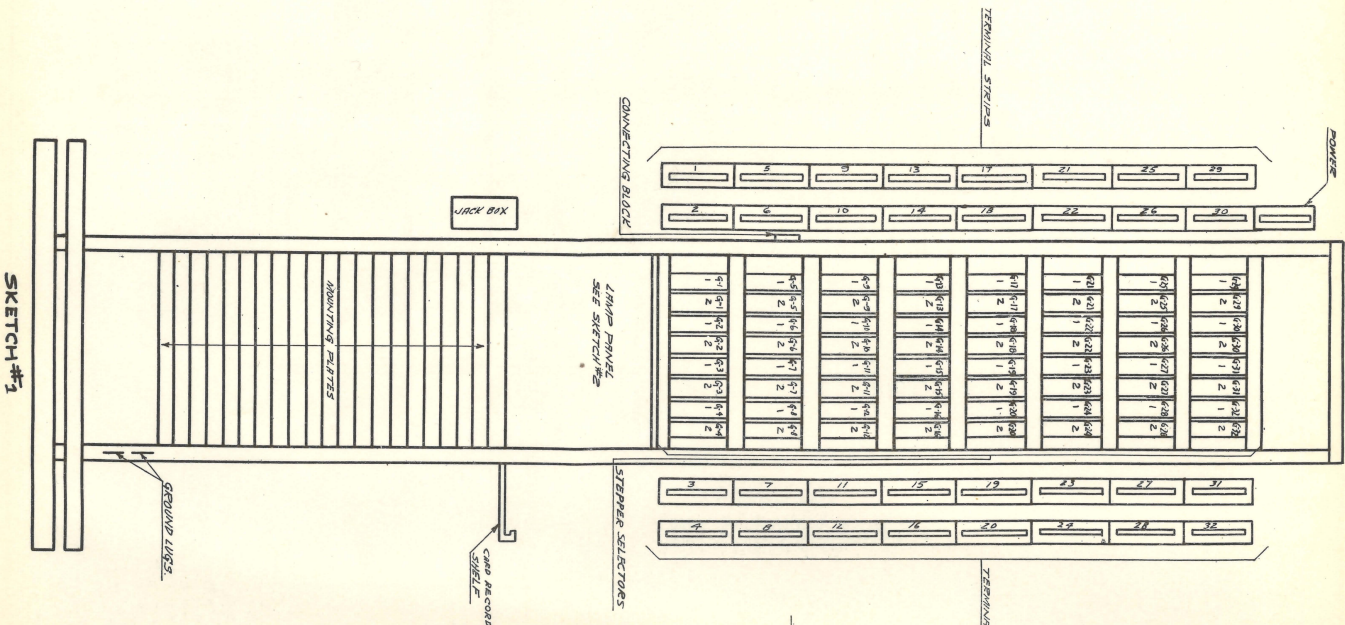
ES-249123



SECTION - XII
FIG - 6

ES-249120

INFORMATION DRAWING
SHOWING SCHEMATIC ARRANGEMENT
FOR SELECTING CIRCUITS FOR TESTING.
AUTOMATIC ROUTINE TEST OF OFFICE SELECTORS
FULL MECHANICAL POWER DRIVEN SYSTEM

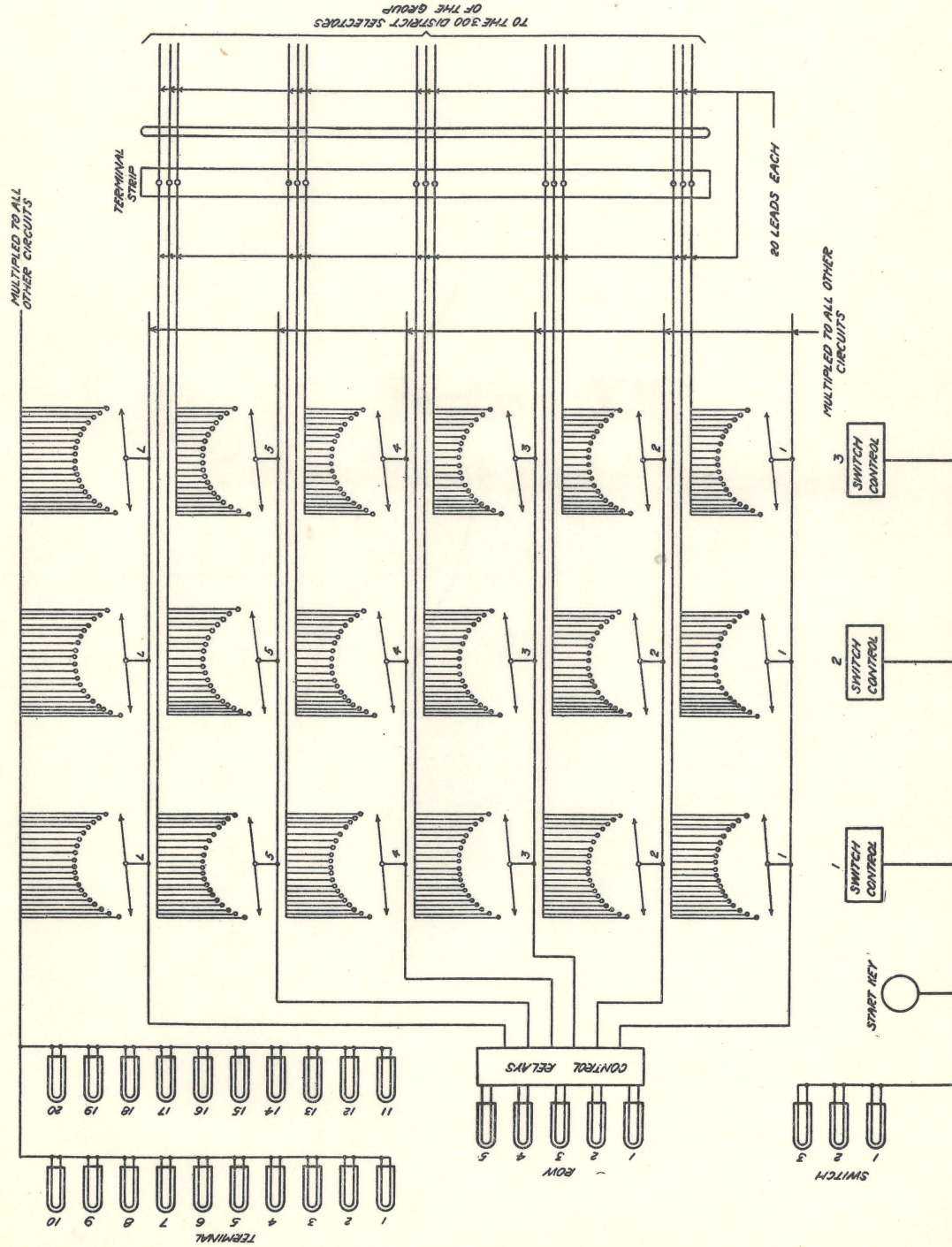


SECTION XII
FIG-9

INFORMATION DRAWING
GENERAL ARRANGEMENT OF EQUIPMENT
OF STUCK SENDER SELECTOR FRAME
AUTOMATIC ROUTINE TEST EQUIPMENT
FULL MECHANICAL POWER DRIVEN SYSTEM

INFORMATION DRAWING
SCHEMATIC ARRANGEMENT FOR FINDING
DISTRICT SELECTORS ASSOCIATED WITH
STUCK SENDERS
AUTOMATIC ROUTINE TEST EQUIPMENT
FULL MECHANICAL POWER DRIVEN SYSTEM

SECTION XII
FIG. 10



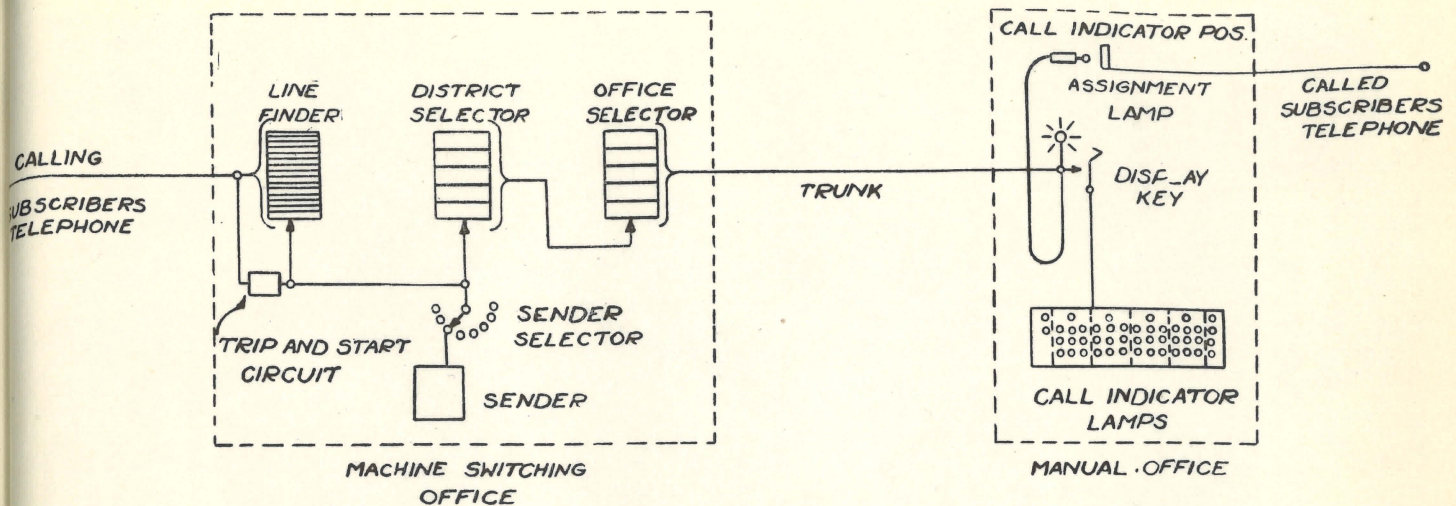
ES-249126

ES-249126

Section XIII

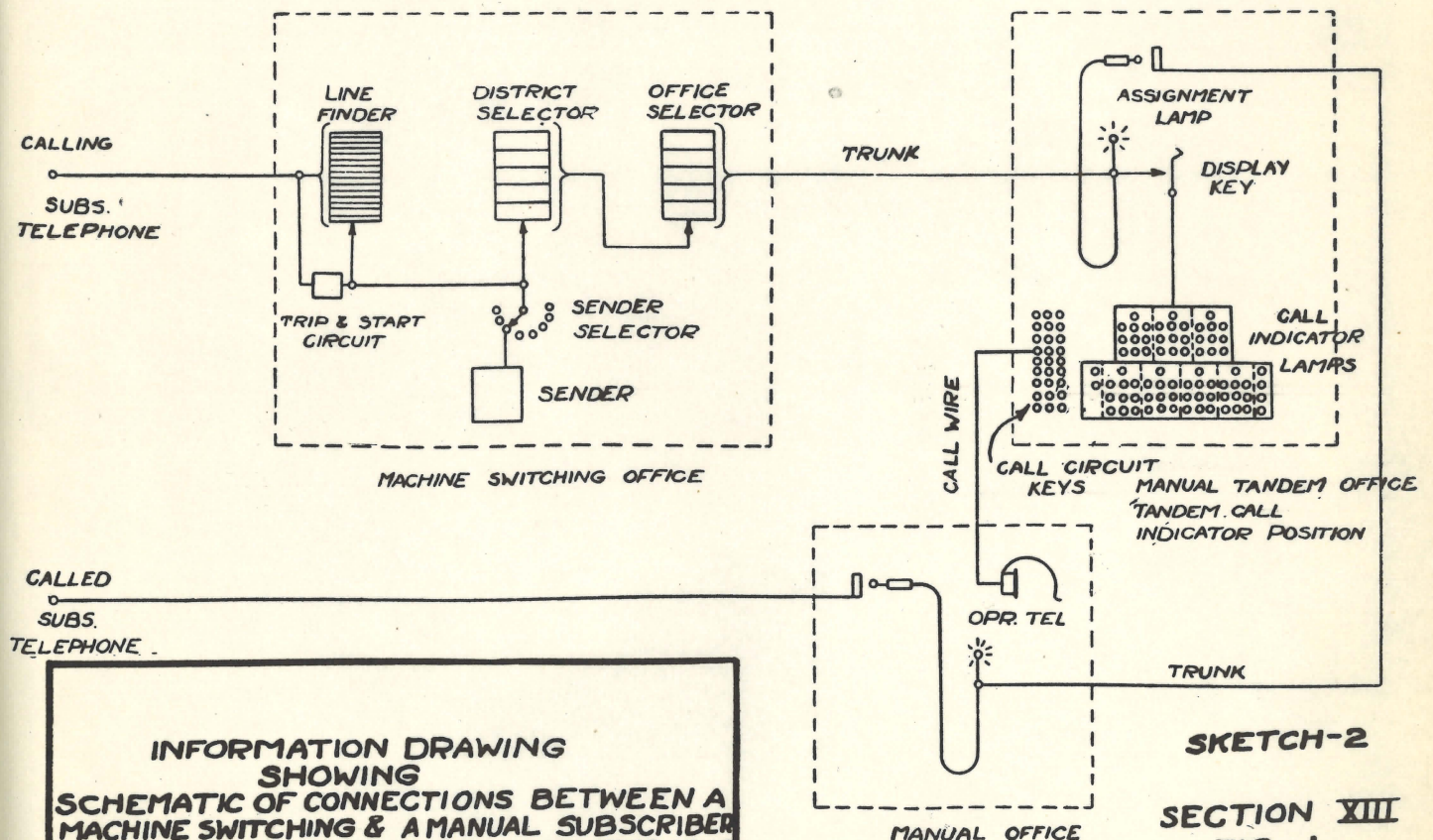
Call and Key-Indicator Equipment

CONNECTION FROM A SUBSCRIBER IN A MACHINE
SWITCHING OFFICE TO A SUBSCRIBER IN A MANUAL OFFICE
WITH DIRECT CALL INDICATOR EQUIPMENT



SKETCH-1

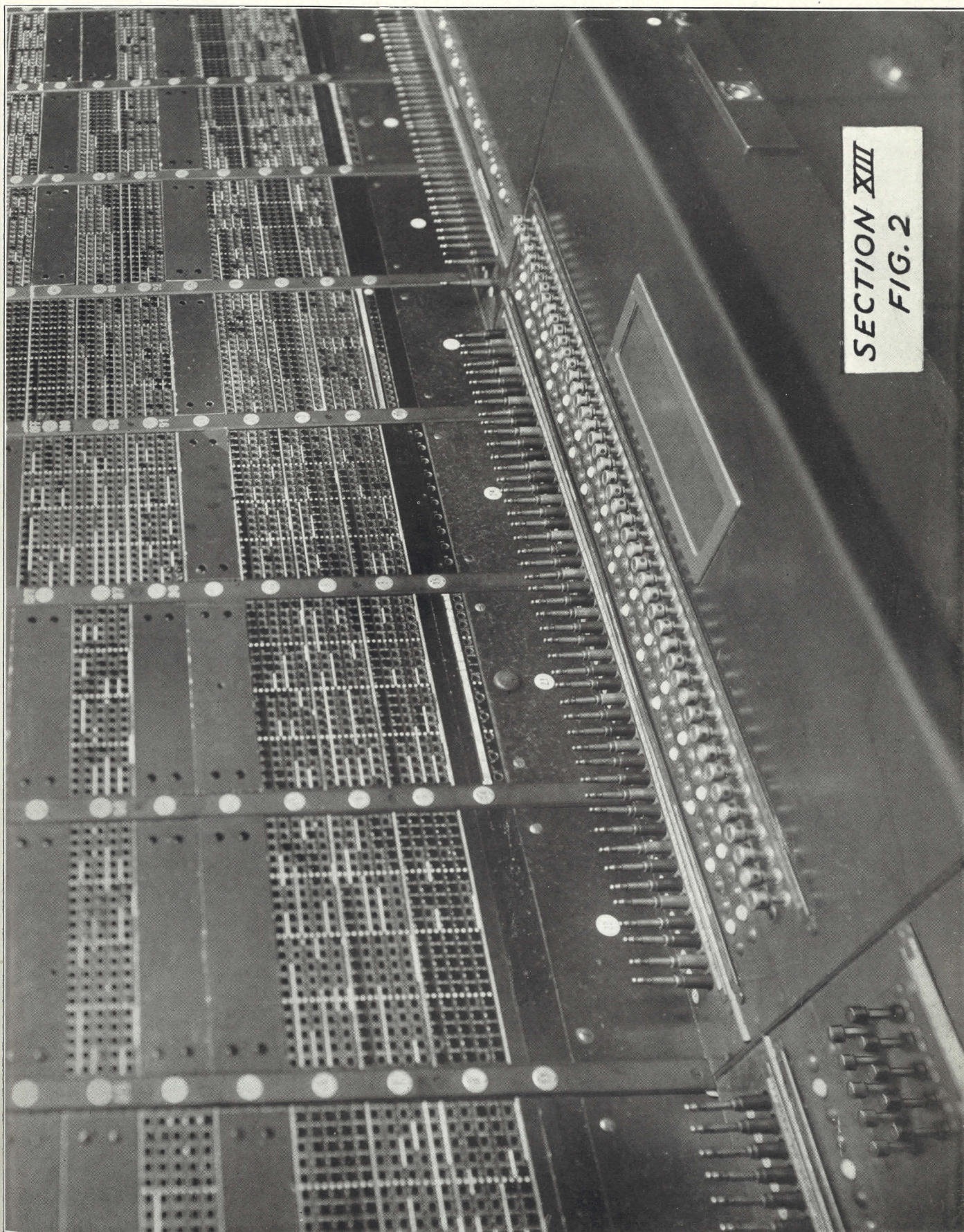
CONNECTION FROM A SUBSCRIBER IN A MACHINE SWITCHING
OFFICE TO A SUBSCRIBER IN A MANUAL OFFICE WITH TANDEM
CALL INDICATOR EQUIPMENT



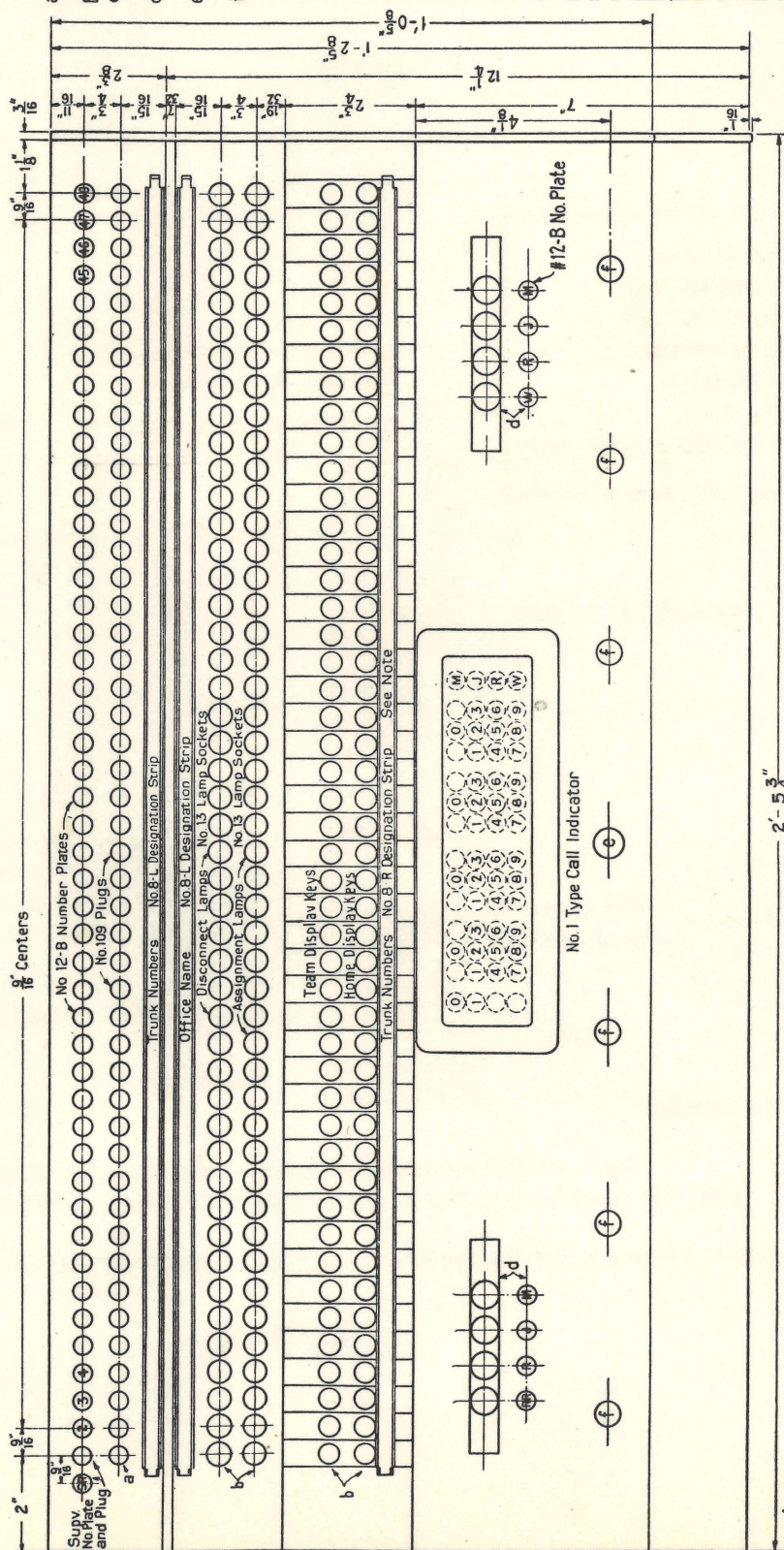
SKETCH-2

SECTION XIII
FIG - 1

INFORMATION DRAWING
SHOWING
SCHEMATIC OF CONNECTIONS BETWEEN A
MACHINE SWITCHING & A MANUAL SUBSCRIBER
BY MEANS OF DIRECT OR TANDEM INDICATOR EQUIP
FULL MECHANICAL POWER DRIVEN SYSTEM



SECTION XIII
FIG. 2

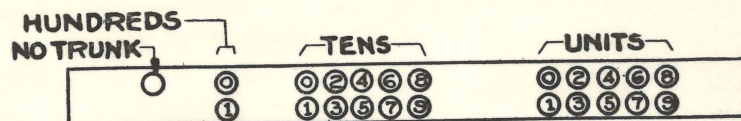


NOTES

The longitudinal dimensions for the location of equipment and overall length for keyshelves for sections other than the 7'-8½" panel shall be as shown on standard drawings for call circuit positions having trunks on 9/16" centers. For new lines of boards the width of keyshelf shall be 1'-2 3/8". For positions to line up with existing sections where the width of keyshelf is 1'-0 5/8" the location of equipment shall be as shown. The 7" dimension shall be reduced to 5". Where the keyshelf is slight less than 1'-0 5/8", the 4 1/8" dimension shall be reduced accordingly.

For 38 and 40 trunks on 9/16" centers use #8-N and #8-F designation strips respectively in place of the #8-R strips.

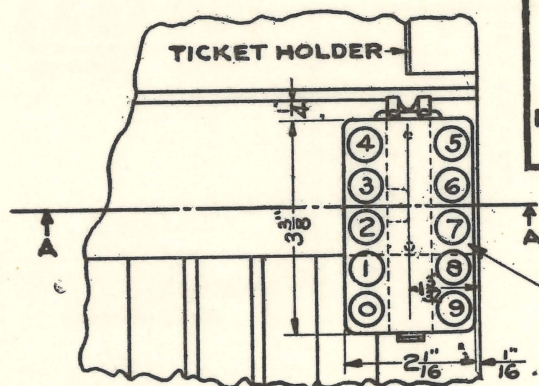
SECTION XIII
FIG. #3



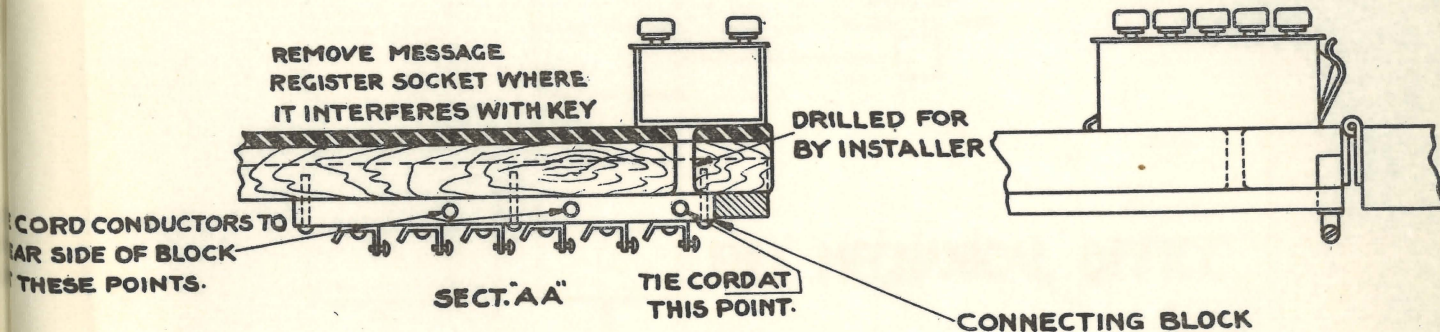
TRUNK INDICATOR FOR MORE THAN 100 AND FEWER THAN 201 O.G.T.

SKETCH 1

INFORMATION DRAWING
KEY INDICATOR EQUIPMENT
METHOD OF MOUNTING
NUMERICAL KEY AND
TRUNK INDICATOR
FOR USE WITH
FULL MECHANICAL POWER-DRIVEN SYSTEM



SECTION XIII
FIG#4

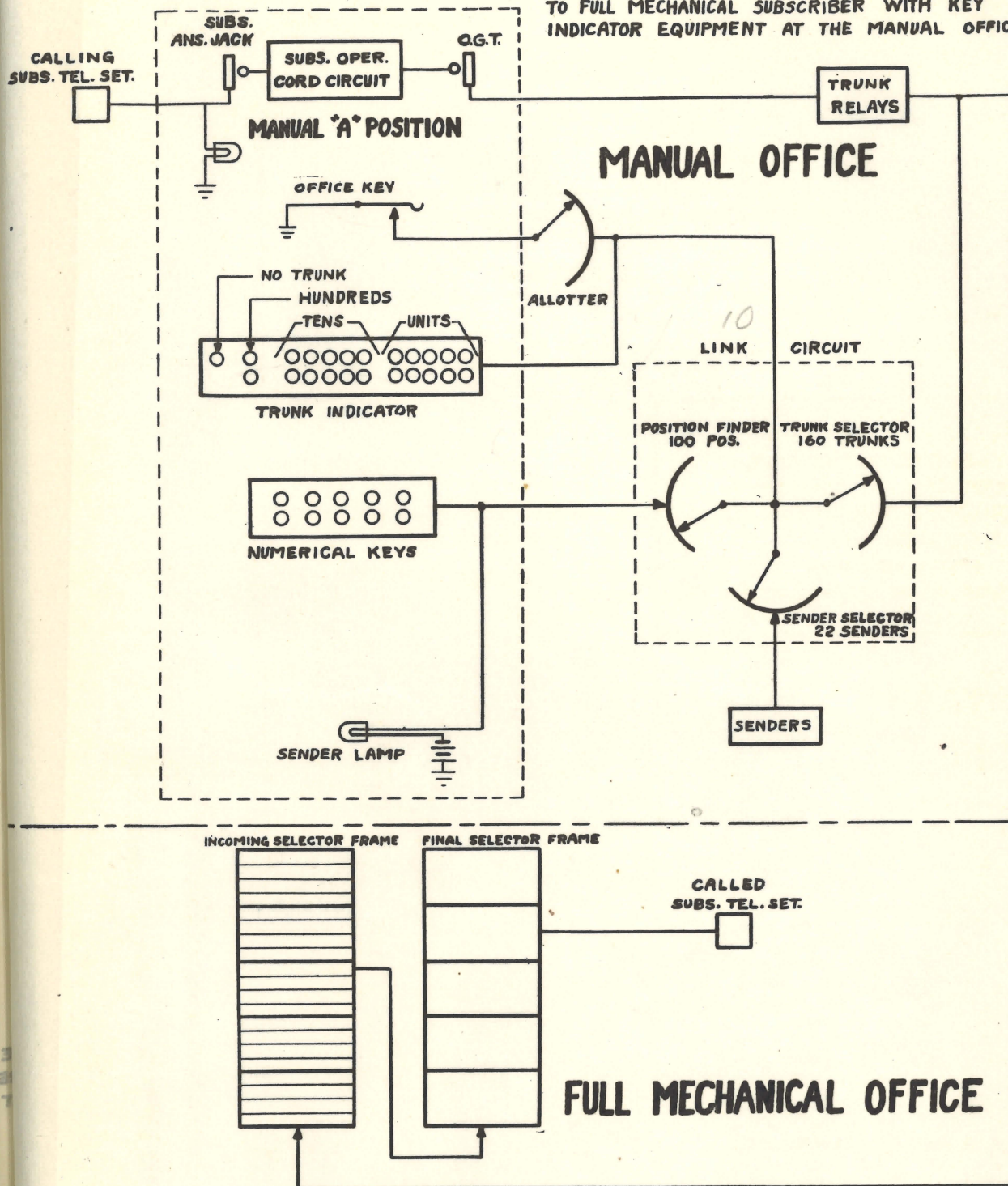


SHIFT CONNECTING BLOCK AS REQUIRED TO MAKE
MOUNTING SCREWS MISS HINGE SCREWS OF OLD SHELVES.

MOUNTING OF NUMERICAL KEY AND ASSOCIATED CONNECTING BLOCK ON KEYSHELF.

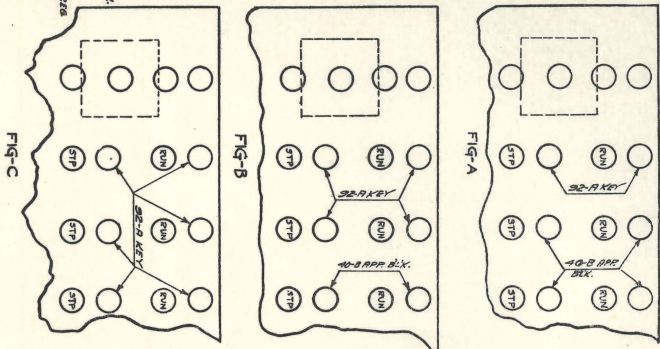
SKETCH 2

SCHEMATIC OF CONNECTION FROM MANUAL SUBSCRIBER
TO FULL MECHANICAL SUBSCRIBER WITH KEY
INDICATOR EQUIPMENT AT THE MANUAL OFFICE



SECTION XIII
FIG. 5

INFORMATION DRAWING
SCHEMATIC OF CONNECTION FROM MANUAL
SUBSCRIBER TO FULL MECHANICAL SUBSCRIBER
WITH KEY INDICATOR EQUIPMENT AT THE
MANUAL OFFICE
FULL MECHANICAL POWER DRIVEN SYSTEM

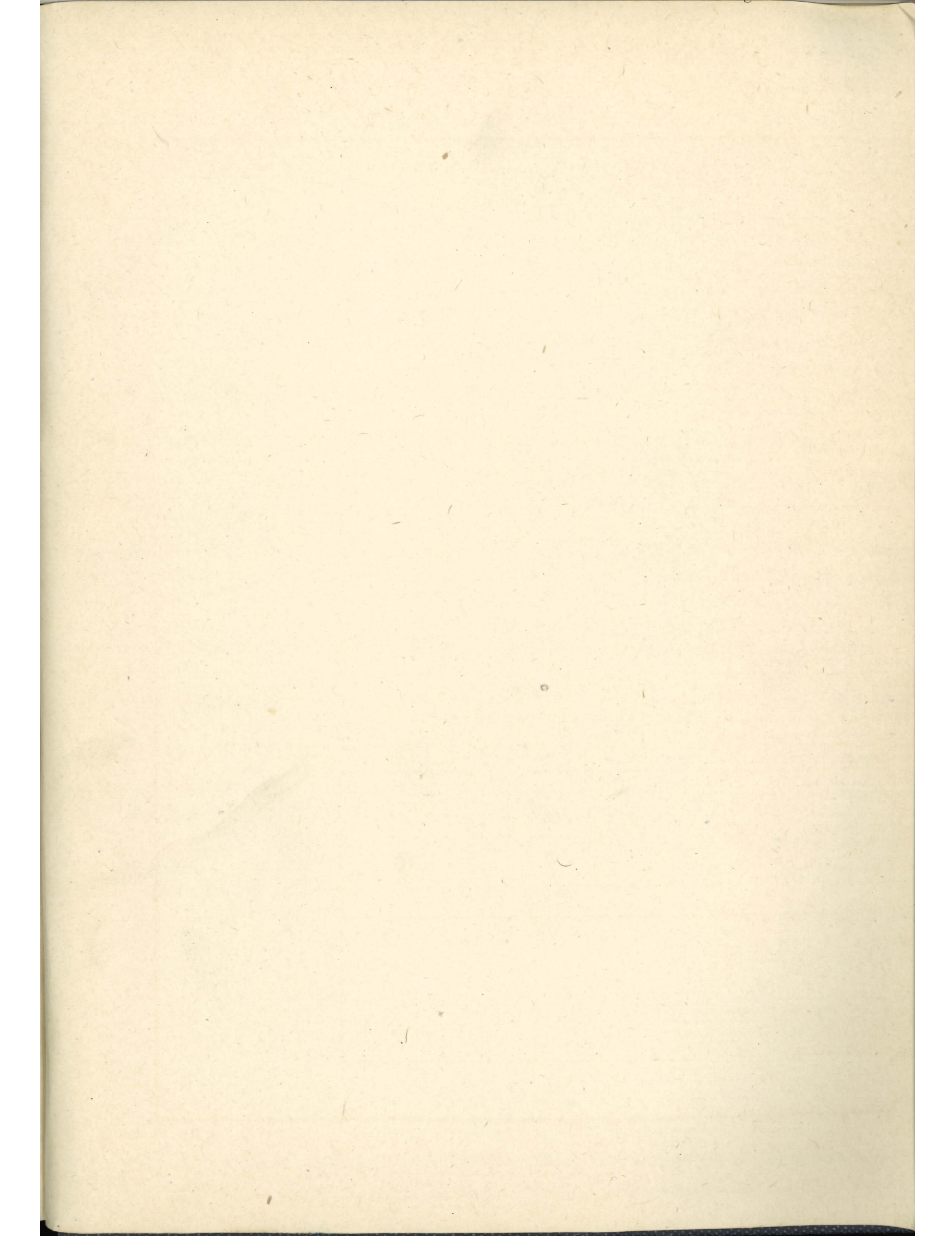


SECTION XIII
FIG. 7.

INFORMATION-NOT FOR MANUFACTURING PURPOSES

**SENDER TESTING EQUIPMENT
FOR KEY INDICATOR SYSTEMS**

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